



THE ART OF MEASUREMENT THE ART OF MEASUREMENT THE ART OF MEASUREMENT



FULL LINE



Holster, HS-03



SMD TESTER

Model : SMDA-22

* Optional SMD tester for LCR-9172, LCR-9173, LCR-9184, LCR-9183.

* Useful tool for SMD components (Resistor, Capacitor, Inductor) measurement.

100 Hz/120 Hz/1 KHz/10 KHz/100 KHz

LCR METER, professional

Model : LCR-9184

- * Intelligent microprocessor circuit , professional.
- * 19999/1999 counts dual LCD display.
- * Auto LCR smart check and measurement.
- * Test range : (ex : F = 1 KHz)
 - L : 20.0 uH to 2000.0 H
 - C : 20.0 pF to 2000 uF
 - R : 20.000 Ω to 200.0 MΩ
- * Series/Parallel modes are selectable.
- * DCR mode 20.00 Ω to 200.0 MΩ
- * Five test frequencies are available :
 - 100 Hz/120 Hz/1 KHz/10 KHz/100 KHz
- * Ls/Lp/Cs/Cp with D / Q / θ / ESR Parameter.
- * LCD Display with backlight structure.
- * Power : DC 9V battery or DC 9V adapter in.
- * RS232/USB computer interface.
- * Optional SMD test clips, SMDC-21.
- * Optional SMD tester, SMDA-22.
- * Optional USB cable, USB-01.
- * Optional Excel data acquisition software, SW-E803.
- * Optional holster, SH-03.

Model : LCR-9183

* Function is same as the LCR-9184, but without LCD backlight structure, without sorting function and the spec. accuracy is larger than LCR-9184.



SMD TEST CLIP

Model : SMDC-21

* Optional SMD test clip for LCR-9172, LCR-9173, LCR-9184, LCR-9183.

* Useful test clip for SMD components (Resistor, Capacitor, Inductor) measurement.

LCR meter, compact size SERIES

100 Hz/120 Hz/1 KHz/10 KHz

Software for LCR-9183, LCR-9184

Compact size, + DCV, frequency LCR METER

Model : LCR-9173

- * Compact size, easy to carry.
- * 6000 counts ADC resolution.
- * Built-in simple DMM front end circuit to support DCV/Frequency/Diode mode.
- * Test ranges :
 - L : 600.0 uH to 200.0 H.
 - C : 600.0 pF to 10.00 mF.
 - R : 60.0 Ω to 20.00 M Ω .
 - DCV : 600.0 mV to 20.00 V.
 - Frequency : 6.000 KHz to 15.00 MHz.
- * Series/Parallel modes are selectable.
- * DCR mode 60.0 Ω to 20.00 M Ω .
- * Four test frequencies are available :
 - 100 Hz/120 Hz/1 KHz/10 KHz
- * Ls/Lp/Cs/Cp with D/Q/ θ /ESR Parameter.
- * Size : 151 x 78 x 43 mm.
- * Power : DC 9V battery or DC 9V adapter in.
- * Optional SMD test clips, SMDC-21.
- * Optional SMD tester, SMDA-22.
- * Optional soft carrying case, CA-05A.



Excel DATA ACQUISITION SOFTWARE for LCR-9183, LCR-9184

Model : SW-E803

SW-E803 can log out the LCR-9183 or LCR-9184 measurement value on Microsoft Office Excel, which makes you much easier to share, analyze, and manage the measurement results.

- * Microsoft Office Excel installed on PC is required.
- * Compatible with Microsoft OS Windows 98, Windows XP, Windows Vista, and Windows 7.
- * Manual data recording with real time (year /date/min/sec) information, it is the useful incoming quality control tool to check the components quality of Inductor, Capacitor, Resistor.
- * Automatic data recording with real time data acquisition system. Time data can be recorded as year/date/min/sec.
- * Data sampling time: 1 to 3,600 seconds.
- * Data can be utilized in Excel with general Excel functions, ex. drawing the data chart.

1	Ver. :120422	Date	Time	Pri. Mode	Frequency	Pri. Value	Pri. Unit	Sec. Mode	Sec. Value	Sec. Unit
2	1	2012/7/9	13:34:54	C Mode	1kHz	2.191 nF		Dissipation fact	0.0020	None
3	2	2012/7/9	13:34:55	C Mode	1kHz	2.191 nF		Dissipation fact	0.0020	None
4	3	2012/7/9	13:34:56	C Mode	1kHz	2.191 nF		Dissipation fact	0.0020	None
5	4	2012/7/9	13:34:57	C Mode	1kHz	2.184 nF		Dissipation fact	0.0010	None
6	5	2012/7/9	13:34:58	C Mode	1kHz	2.184 nF		Dissipation fact	0.0010	None
7	6	2012/7/9	13:34:59	C Mode	1kHz	2.177 nF		Dissipation fact	0.0010	None
8	7	2012/7/9	13:35:00	C Mode	1kHz	2.177 nF		Dissipation fact	0.0010	None
9	8	2012/7/9	13:35:01	C Mode	1kHz	2.183 nF		Dissipation fact	0.0010	None
10	9	2012/7/9	13:35:02	C Mode	1kHz	2.183 nF		Dissipation fact	0.0010	None
11	10	2012/7/9	13:35:03	C Mode	1kHz	2.191 nF		Dissipation fact	0.0020	None
12	11	2012/7/9	13:35:04	C Mode	1kHz	2.191 nF		Dissipation fact	0.0020	None
13	12	2012/7/9	13:35:05	C Mode	1kHz	2.191 nF		Dissipation fact	0.0020	None
14	13	2012/7/9	13:35:06	C Mode	1kHz	2.191 nF		Dissipation fact	0.0020	None
15	14	2012/7/9	13:35:07	C Mode	1kHz	2.176 nF		Dissipation fact	0.0000	None
16	15	2012/7/9	13:35:08	C Mode	1kHz	2.184 nF		Dissipation fact	0.0010	None
17	16	2012/7/9	13:35:09	C Mode	1kHz	2.186 nF		Dissipation fact	0.0010	None
18	17	2012/7/9	13:35:10	C Mode	1kHz	2.186 nF		Dissipation fact	0.0010	None
19	18	2012/7/9	13:35:11	C Mode	1kHz	2.186 nF		Dissipation fact	0.0010	None
20	19	2012/7/9	13:35:12	C Mode	1kHz	2.186 nF		Dissipation fact	0.0010	None
21	20	2012/7/9	13:35:13	C Mode	1kHz	2.189 nF		Dissipation fact	0.0010	None
22	21	2012/7/9	13:35:14	C Mode	1kHz	2.176 nF		Dissipation fact	0.0000	None

Economical and Compact LCR meter

SERIES



SMD TEST CLIP

Model : SMDC-21

* Optional SMD test clip for LCR-9172, LCR-9173, LCR-9184, LCR-9183.

* Useful test clip for SMD components (Resistor, Capacitor, Inductor) measurement.



SMD TESTER

Model : SMDA-22

* Optional SMD tester for LCR-9172, LCR-9173, LCR-9184, LCR-9183.

* Useful tool for SMD components (Resistor, Capacitor, Inductor) measurement.



Economical + DCV

LCR METER

Model : LCR-9172

* Compact size, easy to carry.

* 6000 counts ADC resolution.

* Built-in DCV measurement function

* Test ranges :

L : 600.0 uH to 200.0 H.

C : 600.0 pF to 10.00 mF.

R : 60.0 to 20.00 M ohm.

DCV : 600.0 mV to 20.00 V.

* Series/Parallel modes are selectable.

* DCR mode 60.0 to 20.00 M ohm.

* Four test frequencies are available :

100 Hz/120 Hz/1 KHz/10 KHz

* Ls/Lp/Cs/Cp with D/Q/ESR Parameter.

* Data hold.

* Size : 151 x 78 x 43 mm.

* Power : DC 9V battery or DC 9V adapter in.

* Optional SMD test clips, SMDC-21.

* Optional SMD tester, SMDA-22.

* Optional soft carrying case, CA-05A.

Mini Pocket SERIES Environment meters Weather/sport meters



9 in 1 Anemometer, Humidity/Temp., Light Meter, Pt 1000 ohm Thermometer Model : SP-8001

- * Multi-functions, mini pocket size, 9 in 1 :
 1. Air velocity/Temp., 2. Humidity/Temp.,
 3. Light meter, 4. Air flow, 5. Dew point,
 6. Wet bulb, 7. Wind chill, 8. Heat index,
 9. Pt 1000 ohm Temp. (optional probe, TP-1000) .
- * Humidity/Temp. : 10 to 95 %RH. °C/°F.
- * Air velocity : 0.4 to 20.0 m/s.
- * Air flow : CMM, CFM.
- * Light : 0 to 20,000 Lux.
- * LCD with backlight.
- * Size : 120 mm x 45 mm x 20 mm.
- * Battery and carrying case are included.



11 in 1 Anemometer, Humidity/Temp., Barometer, Altitude, light ENVIRONMENT METER + Light Model : SP-9201

- * Multi-functions, mini pocket size, 11 in 1 :
 1. Air velocity/Temp., 2. Humidity/Temp.,
 3. Light meter, 4. Barometer, 5. Air flow,
 6. Dew point, 7. Wet bulb, 8. Wind chill,
 9. Heat index, 10. Altitude,
 11. Pt 1000 ohm Temp.(optional probe, TP-1000) .
- * Humidity/Temp. : 10 to 95 %RH. °C/°F.
- * Air velocity : 0.4 to 20.0 m/s.
- * Air flow : CMM, CFM.
- * Light : 0 to 20,000 Lux.
- * Barometer : 10.0 to 1100 hPa.
- * Altitude : -2000 to 9000 m.
- * LCD with backlight.
- * Size : 120 mm x 45 mm x 20 mm.
- * Battery and carrying case are included.



11 in 1 Anemometer, Humidity/Temp., Barometer, Altitude, UV ENVIRONMENT METER + UV light Model : SP-9202

- * Multi-functions, mini pocket size, 11 in 1 :
 1. Air velocity/Temp., 2. Humidity/Temp.,
 3. UV Light, 4. Barometer, 5. Air flow,
 6. Dew point, 7. Wet bulb, 8. Wind chill,
 9. Heat index, 10. Altitude,
 11. Pt 1000 ohm Temp.(optional probe, TP-1000) .
- * Humidity/Temp. : 10 to 95 %RH, °C/°F.
- * Air velocity : 0.4 to 20.0 m/s.
- * Air flow : CMM, CFM.
- * UV Light : 0 to 20.00 mW/cm², 2 ranges
- * Barometer : 10.0 to 1100 hPa.
- * Altitude : -2000 to 9000 m.
- * LCD with backlight.
- * Size : 120 mm x 45 mm x 20 mm.
- * Battery and carrying case are included.

9 in 1 Anemometer, Humidity/Temp., UV Light, Pt 1000 ohm Thermometer Model : SP-8002

- * Multi-functions, mini pocket size, 9 in 1 :
 1. Air velocity/Temp., 2. Humidity/Temp., 3. Air flow,
 4. UV light meter, 5. Dew point, 6. Wet bulb, 7. Wind chill,
 8. Heat index, 9. Pt 1000 ohm Temp. (optional probe) .
- * Humidity/Temp. : 10 to 95 %RH. °C/°F.
- * Air velocity : 0.4 to 20.0 m/s.
- * Air flow : CMM, CFM.
- * UV Light : 0 to 20.00 mW/cm², 2 ranges.
- * LCD with backlight.
- * Size : 120 mm x 45 mm x 20 mm.
- * Battery and carrying case are included.



Mini Pocket **SERIES** Environment meters Anemometer, Humidity/Temp.



7 in 1 ANEMOMETER, HUMIDITY/TEMP. Model : SP-7000

- * Multi-functions, mini pocket size, 7 in 1 :
 1. Air velocity/Temp., 2. Humidity/Temp.,
 3. Air flow, 4. Dew point, 5. Wet bulb,
 6. Wind chill, 7. Heat index
- * Air velocity : 0.4 to 20.0 m/s.
- * Humidity/Temp. : 10 to 95 %RH. °C/°F.
- * Air flow : CMM, CFM.
- * LCD with backlight.
- * Size : 120 mm x 45 mm x 20 mm.
- * Battery and carrying case are included.



4 in 1 ANEMOMETER, HUMIDITY/TEMP. Model : SP-82AH

- * Multi-functions, mini pocket size, 4 in 1 :
 1. Air velocity, 2. Air Temp., 3. Humidity,
 4. Dew point
- * Low-friction ball bearing mounted wheel design.
- * Air velocity : 0.4 to 20.0 m/s.
- * Air Temp. : 0 to 50 °C, °C/°F.
- * Humidity/Temp. : 10 to 95 %RH, °C/°F.
- * Dew point Temp. : -25.3 °C to 48.9 °C, °C/°F.
- * Air velocity unit : m/s, ft/min., kmh, mph, knot.
- * Size : 120 mm x 45 mm x 20 mm.
- * Battery and carrying case are included.



2 in 1 ANEMOMETER, + Air flow Model : SP-82AM

- * Multi-functions, mini pocket size, 2 in 1 :
 1. Air velocity, 2. Air flow.
- * Low-friction ball bearing mounted wheel design.
- * Air velocity : 0.4 to 20.0 m/s.
- * Air flow : CMM, CFM.
- * Air velocity unit : m/s, ft/min., kmh, mph, knot.
- * Size : 120 mm x 45 mm x 20 mm.
- * Battery and carrying case are included.

3 in 1 ANEMOMETER, + Air flow, Temp. Model : SP-82AT

- * Multi-functions, mini pocket size, 3 in 1 :
 1. Air velocity, 2. Air Temp., 3. Air flow.
- * Low-friction ball bearing mounted wheel design.
- * Air velocity : 0.4 to 20.0 m/s.
- * Air Temp. : 0 to 50 °C, °C/°F.
- * Air flow : CMM, CFM.
- * Air velocity unit : m/s, ft/min., kmh, mph, knot.
- * Size : 120 mm x 45 mm x 20 mm.
- * Battery and carrying case are included.



Mini Pocket Environment meters SERIES Light, UV Light, Humidity/Temp.



3 in 1 HUMIDITY/TEMP. METER

Model : SP-82RH

- * Multi-functions, mini pocket size, 3 in 1 :
 1. Humidity/Temp., 2. Dew point,
 3. Wet bulb.
- * Humidity: 10 to 95 %RH.
- * Temperature. : 0 to 50 °C, °C/°F.
- * Dew point : -25.3 to 49.0 °C, °C/°F.
- * Size : 120 mm x 45 mm x 20 mm.
- * Battery and carrying case are included.



LIGHT METER Model : SP-82LX

- * Mini pocket size.
- * Exclusive photo diode and color correction filter
- * Light sensor, spectrum meets C.I.E. photopic.
- * Sensor cosine correction factor meets standard.
- * Auto range.
- * Lux : 0 to 20,000 Lux, 2 ranges.
- * Ft-cd : 0 to 1,860 Ft-cd, 2 ranges.
- * Size : 120 mm x 45 mm x 20 mm.
- * Battery and carrying case are included.



UV LIGHT METER Model : SP-82UV

- * Mini pocket size.
- * Exclusive UV photo sensor with cosine correction filter.
- * UV sensor with wide spectrum, calibration under UVA light & and compare with the standard UVA light meter.
- * Auto range, 2 ranges :
 - Range 1 : 0 to 1999 uW/cm²
 - Range 2 : 2 to 20.00 mW/cm²
- * Size : 120 mm x 45 mm x 20 mm.
- * Battery and carrying case are included.



Mini Pocket Environment meters SERIES Altitude/Compass



3 in 1, + Barometer, Anemometer

ALTITUDE METER

Model : SP-82AL

- * Multi-functions, mini pocket size, 3 in 1 :
 1. Altitude meter, 2. Barometer 3. Anemometer
- * Precision baro sensor for the atmosphere value and altitude measurement.
- * Low-friction ball bearing mounted wheel design
- * Altitude : -2000 to 9000 m, meter/feet.
- * Air velocity : 0.4 to 20.0 m/s.
- * Air velocity unit : m/s, ft/min., kmh, mph, knot.
- * Barometer unit : hPa, mmHg, inHg.
- * Size : 120 mm x 45 mm x 20 mm.
- * Battery and carrying case are included.



Pt 1000 ohm Temp. probe

Model : TP-1000

- * Temp. sensor : Pt 1000 ohm.
- * Optional Temp. probe for SP-9201, SP-9202, SP-8001, SP-8002.
- * Temp. range : -10.0 to 70.0 °C, °C /°F.
- * Size :
 - Tube, 110 mm x 4 mm Dia..
 - Handle, 60 mm x 12 mm Dia



3 in 1, + Barometer, Compass

ALTITUDE METER

Model : SP-82AC

- * Multi-functions, mini pocket size, 3 in 1 :
 1. Altitude meter, 2. Barometer 3. Compass
- * Precision baro sensor for the atmosphere value and altitude measurement.
- * Altitude : -2000 to 9000 m, meter/feet.
- * Barometer unit : hPa, mmHg, inHg.
- * Size : 120 mm x 45 mm x 20 mm.
- * Battery and carrying case are included

4 in 1
Anemometer, Humidity meter
Light Meter, Type K Thermometer
Model : LM-8000A

- * 4 in 1 professional measuring instrument : Anemometer, Hygrometer, Thermometer, and Light meter.
- * Anemometer uses the magnetic sensor structure, Low-friction ball bearing mounted wheel design provides high accuracy at high and low air velocity.
- * Exclusive photo diode and color correction filter light sensor, spectrum meets C.I.E. photopic.
- * High precision humidity sensor with fast response time.
- Standard type K (NiCr-NiAl) thermocouple input jack suitable for all kinds of type K probe.
- * Humidity : 10 to 95 %RH, °C/°F
- * Anemometer : 0.4 to 30.0 m/s.
- * Anemometer unit :
m/s, km/h, MPH, knots, ft/min, °C/°F.
- * Light :
0 to 20,000 Lux, 0 to 1,860 Ft-cd, auto range.
- * Type K Thermometer : -100 to 1300 °C, °C/°F.
- * Data hold, Record (Max., Min.).
- * Zero button design makes light meter calibration.
- * Tiny bone shape with lightweight and small size case design are suitable for handling with one hand.
- * Optional type K Temp. probes :
TP-01, TP-02A, TP-03, TP-04, TP-05.
- * Size : 156 x 60 x 33 mm.



7 in 1, 5 in 1 SERIES Environment meters



7 in 1

**Anemometer, Air flow, Humidity/Temp. meter
Dew point, Light Meter, Barometer,
Type K thermometer**

Model : LM-9000

- * Anemometer : 0.4 to 30.0 m/s.
Anemometer unit : m/s, km/h, MPH, knots, ft/min, °C/°F.
- * Air flow : CMM, CFM.
- * Humidity/Temp. : 10 to 95 %RH, °C/°F.
- * Dew point Temp. : -25.3 to 49.0 °C, °C/°F.
- * Light : 0 to 20,000 Lux, 0 to 1,860 Ft-cd, auto range.
- * Barometer : 10 to 1100 hPa, mmHg, inHg.
- * Type K Thermometer : -100 to 1300 °C, °C/°F.
- * Data hold, Record (Max., Min.).
- * Optional type K Temp. probes : TP-01, TP-02A, TP-03, TP-04, TP-05.
- * Tiny bone shape with light weight and small size.
- * Size : 156 x 60 x 33 mm.



5 in 1 + Air flow

**Anemometer, Air flow, Humidity meter
Light Meter, Type K Thermometer**

Model : LM-8010

- * Humidity : 10 to 95 %RH, °C/°F.
- * Anemometer : 0.4 to 30.0 m/s.
- * Anemometer unit : m/s, km/h, MPH, knots, ft/min, °C/°F.
- * Air flow (CMM, CFM).
- * Light : 0 to 20,000 Lux, 0 to 1,860 Ft-cd, auto range.
- * Type K Thermometer : -100 to 1300 °C, °C/°F.
- * Data hold, Record (Max., Min.).
- * Optional type K Temp. probes : TP-01, TP-02A, TP-03, TP-04, TP-05.
- * Tiny bone shape with light weight and small size.
- * Size : 156 x 60 x 33 mm.





4 in 1 METER

Model : LM-8100

* 4 functions :

- Humidity/Temp. measurement
- Anemometer/Temp. measurement
- Light measurement
- Type K Thermometer

* Humidity : 10 to 95 %RH, Temp. (°C/°F).

* Anemometer : 0.4 to 30 m/s, Temp. (°C/°F).

* Light : auto range.

0 to 20,000 Lux, 0 to 1,860 Ft-cd.

* Type K Thermometer : -100 to 1300 °C, °C/°F.

* Data hold, Record (Max., Min.).

* RS232/USB computer interface.

* Optional type K Temp. probes :

TP-01, TP-02A, TP-03, TP-04, TP-05.

* Compact housing, easy carryout.



5 in 1 METER

Model : LM-8102

* 5 functions : Sound level, Humidity, Anemometer, Light and Type K thermometer.

* Sound level meter : 35 to 130 dB, auto range.

* Humidity : 10 to 95 %RH, Temp. (°C/°F).

* Anemometer : 0.4 to 30 m/s, Temp. (°C/°F).

* Light : 0 to 20,000 Lux, 0 to 1,860 Ft-cd, auto range.

* Type K Thermometer : -100 to 1300 °C, °C/°F.

* Sound level meter meets IEC 61672 class 2.

* Data hold, Record (Max., Min.), RS232/USB.

* Optional type K Temp. probes : TP-01, TP-02A, TP-03, TP-04, TP-05.

* Optional wind shield ball, SB-01.

SD card data recorder Patented SERIES



SD Card real time data recorder ANEMOMETER, + type K/J Temp. Model : AM-4207SD

- * Real time data logger, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * Air velocity/Temp. measurement, professional.
- * 0.4 to 25.0 m/s, ft/min., km/h. knots, mile/h.
- * Low friction ball-bearing vane.
- * Separate probe, high reliability.
- * Type K Thermometer : -100 to 1300 °C, °C/°F.
- * Type J Thermometer : -100 to 1200 °C, °C/°F.
- * Data hold, Record (Max., Min.).
- * RS232/USB computer interface.
- * Patented.



SD Card real time data recorder Air flow (CMM. CFM) Mini vane ANEMOMETER, + type K/J Temp. Model : AM-4233SD

- * Mini vane with 35mm Dia., low-friction ball bearing mounted wheel design provides high accuracy at high and low air velocity.
- * Telescope probe, extension length 620 mm max.
- * Replacement anemometer van set.
- * Real time data logger, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * Air velocity/Temp. measurement, professional.
- * 0.4 to 20.0 m/s, ft/min., km/h. knots, mile/h.
- * Air flow : CMM, CFM.
- * Low friction ball-bearing vane.
- * Separate probe, high reliability.
- * Type K Thermometer : -100 to 1300 °C, °C/°F.
- * Type J Thermometer : -100 to 1200 °C, °C/°F.
- * Data hold, Record (Max., Min.).
- * RS232/USB computer interface.
- * Patented.



SD Card real time data recorder Air flow (CMM. CFM) ANEMOMETER, + type K/J Temp. Model : AM-4307SD

- * Real time data logger, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * Air velocity/Temp. measurement, professional.
- * 0.4 to 25.0 m/s, ft/min., km/h. knots, mile/h.
- * Air flow : CMM, CFM.
- * Low friction ball-bearing vane.

- * Separate probe, high reliability.
- * Type K Thermometer : -100 to 1300 °C, °C/°F.
- * Type J Thermometer : -100 to 1200 °C, °C/°F.
- * Data hold, Record (Max., Min.).
- * RS232/USB computer interface.
- * Patented.



Cup probe is built in tripod fix nut



SD Card real time data recorder
LIGHT METER + type K/J Temp.

Model : LX-1128SD

- * Real time data logger, save the data into the SD memory card and can be downloaded to the Excel.
- * 3 ranges, 2,000/20,000/100,000 Lux.
- * Lux & Foot Candle unit selection with default.
- * Auto range for light measurement.
- * Sensor meet C.I.E. spectrum, 2 filters.
- * Separate probe, easy operation.
- * Type K Thermometer :
-100 to 1300 °C, °C/°F.
- * Type J Thermometer :
-100 to 1200 °C, °C/°F.
- * Data hold, Record (Max., Min.).
- * RS232/USB, Zero adjust.
- * Patented.

SD Card real time data recorder
CUP ANEMOMETER, + type K/J Temp.

Model : AM-4257SD

- * Real time data logger, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * Outside air speed measurement and recording
- * 0.9 to 35.0 m/s, ft/min., km/h. knots, mile/h.
- * Separate cup type probe, high reliability.
- * Type K Thermometer : -100 to 1300 °C, °C/°F.
- * Type J Thermometer : -100 to 1200 °C, °C/°F.
- * Data hold, Record (Max., Min.).
- * RS232/USB computer interface.
- * Patented.



Metal



Humidity /Temp. probe



Plastic



Humidity /Temp. probe

SD Card real time data recorder
Humidity/Temp., type K/J Temp.
ANEMOMETER, + Air flow

Model : AM-4247SD

- * Real time data logger, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * Air velocity/Temp. measurement, professional.
- * 0.4 to 35.0 m/s, ft/min., km/h. knots, mile/h.
- * Air flow : CMM, CFM.
- * Humidity/%RH : 5 to 95 %RH.
- * Dew point, WET bulb, Temp.
- * Heavy duty metal vane probe, low friction ball-bearing vane.
- * Type K/J Thermometer, optional type K Temp. probe.
- * Data hold, Record (Max., Min.).
- * Two probes : anemometer and humidity/Temp. probes.
- * RS232/USB computer interface.

SD Card real time data recorder
Humidity/Temp., type K/J Temp.
ANEMOMETER, + Air flow

Model : AM-4237SD

- * Real time data logger, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * Air velocity/Temp. measurement, professional.
- * 0.4 to 25.0 m/s, ft/min., km/h. knots, mile/h.
- * Air flow : CMM, CFM.
- * Humidity/%RH : 5 to 95 %RH.
- * Dew point, WET bulb, Temp.
- * Plastic vane probe, low friction ball-bearing vane.
- * Type K/J Thermometer, optional type K Temp. probe.
- * Data hold, Record (Max., Min.).
- * Two probes : anemometer and humidity/Temp. probes.
- * RS232/USB computer interface.



SD Card real time data recorder
HOT WIRE ANEMOMETER, + type K/J Temp.
Model : AM-4214SD

- * Real time data logger, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * 0.2 to 25.0 m/s, high precision for low air velocity measurement.
- * m/s, ft/min, km/h, knots, mile/h, °C/°F.
- * Type K Thermometer : -100 to 1300 °C, °C/°F.
- * Type J Thermometer : -100 to 1200 °C, °C/°F.
- * Data hold, Record (Max., Min.).
- * RS232/USB computer interface.
- * Patented.



Card real time data recorder
Air flow (CMM, CFM)
HOT WIRE ANEMOMETER, + type K/J Temp.
Model : AM-4215SD

- * Real time data logger, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * 0.2 to 25.0 m/s, high precision for low air velocity measurement.
- * m/s, ft/min, km/h, knots, mile/h, °C/°F.
- * Air flow : CMM, CFM.
- * Type K Thermometer : -100 to 1300 °C, °C/°F.
- * Type J Thermometer : -100 to 1200 °C, °C/°F.
- * Data hold, Record (Max., Min.).
- * RS232/USB computer interface.
- * Patented.



SD Card real time data recorder
Air flow, Humidity, Dew point
HOT WIRE ANEMOMETER, type K/J Temp.
Model : AM-4224SD

- * Real time data logger, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * Air velocity : 0.2 to 25.0 m/s, high precision for low air velocity measurement.
- * Air flow : CMM, CFM.
- * m/s, ft/min, km/h, knots, mile/h, °C/°F.
- * Humidity : 5 to 95 %RH.
- * Dew point, Wet bulb.
- * Type K Thermometer :
-100 to 1300 °C, °C/°F.
- * Type J Thermometer :
-100 to 1200 °C, °C/°F.
- * Data hold, Record (Max., Min.).
- * Complete set with two probes :
Hot wire anemometer probe and Humidity/Temp. probe.
- * RS232/USB computer interface.
- * Patented.

SD Card real time data recorder
Air flow, Humidity, Dew point
HOT WIRE ANEMOMETER, wide range + type K/J Temp.
Model : AM-4234SD

- * Real time data logger, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * Air velocity : 0.2 to 35.0 m/s, wide range and high precision for low air velocity measurement.
- * Air flow : CMM, CFM.
- * m/s, ft/min, km/h, knots, mile/h, °C/°F.
- * Humidity : 5 to 95 %RH.
- * Dew point, Wet bulb.
- * Type K Thermometer : -100 to 1300 °C, °C/°F.
- * Type J Thermometer : -100 to 1200 °C, °C/°F.
- * Data hold, Record (Max., Min.).
- * Complete set with two probes :
Hot wire anemometer probe and Humidity/Temp. probe.
- * RS232/USB computer interface.
- * Patented.



SD Card real time data recorder
HUMIDITY/TEMP. METER, + type K/J Temp.
Model : HT-3007SD

- * Real time data logger, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * Humidity/%RH : 5 to 95 %RH.
- * Humidity/Temp. : 0 to 50.0 °C, °C/°F.
- * Dew point, WET bulb.
- * Type K Thermometer : -100 to 1300 °C, °C/°F.
- * Type J Thermometer : -100 to 1200 °C, °C/°F.
- * Data hold, Record (Max., Min.).
- * RS232/USB computer interface.
- * Patented.

SD Card real time data recorder
%RH, Wet bulb, Dew point, Temp., type K/J Temp.
PRECISION HYGROMETER
Model : HT-3027SD

- * Real time data logger, save the data into the SD memory card and can be downloaded the Excel, extra software is no need.
- * Measure the Humidity (%RH), Wet bulb Temp., Dew point Temp., Temperature values at the same time and show all the 4 kind of reading values in the same LCD.
- * Humidity, %RH : 5 to 95 %RH.
- * Type K Thermometer : -100 to 1300 °C, °C/°F.
- * High resolution : Humidity : 0.01 %RH, Temp. : 0.01 °C/°F.
- * Humidity/Temp. : 0 to 50.0 °C, °C/°F.
- * Type J Thermometer : -100 to 1200 °C, °C/°F.
- * Data hold, Record (Max., Min.).
- * Optional type K Temp. probes :TP-01, TP-02A, TP-03, TP-04, TP-05.
- * RS232/USB computer interface.
- * Send the four measuring data out at the same batch.
- * Patented.



Optional Temp. probe



two Pt 100 Ω probes input TP-100 (Optional)

SD Card real time data recorder
4 channels THERMOMETER

Model : TM-947SD

- * Real time data logger, save the data into the SD memory card and can be downloaded to the Excel.
- * Type K/J/R/S/E/T, Pt 100 ohm, 4 displays.
- * 4 channels (T1, T2, T3, T4), T1-T2, °C/°F.
- * Display 4 channels Temp. at the same time.
- * Type K : -100 to 1300 °C.
- * Type J : -100 to 1150 °C.
- * Pt 100 ohm : -199 to 850 °C.
- * °C/°F, 0.1 degree/1 degree.
- * Data hold, Record (max., min.).
- * RS232/USB computer interface.
- * Optional type K Temp. probes : TP-01, TP-02A, TP-03, TP-04, TP-05.
- * Optional Pt-100 ohm Temp. probe, TP-101.
- * Patented.

SD Card real time recorder
Two channels for PT 100 ohm input
PRECISION 0.01 degree THERMOMETER

Model : TM-9017SD

- * Real time data logger, save the data into the SD memory card and can be downloaded to the Excel.
- * Pt 100 ohm + thermocouple type K, J, R, E, T, S.
- * Two channels for PT 100 ohm, one channel for thermocouple type K, J, R, E, T, S.
- * 0.01°, 0.1° resolution, °C/°F.
- * Cooperate with 4 wires Pt 100 ohm probe, high precision.
- * Pt 100 probe input cooperate with an 0.00385 alpha coefficient, meet DIN IEC 751.
- * Pt 100 ohm : -199.99 to 850.00 °C.
- * Type K : -100.0 to 1300.0 °C.
- * Type J : -100.0 to 1150.0 °C.
- * Data hold, Record (max., min.).
- * RS232/USB computer interface.
- * Optional Pt 100 ohm Temp. probe, TP-100.
- * Optional type K Temp. probes : TP-01, TP-02A, TP-03, TP-04, TP-05.
- * Patented.



SD Card real time recorder
Two channels for PT 100 ohm input
PRECISION THERMOMETER, LED display
Model : TM-9027SD

- * Red LED display, all meter operated under the low Temp. (under -25°C).and dark environment.
- * Display : 4 digits red LED, 14 mm (0.55 inch) digit height.
- * Real time data logger, save the data into the SD memory card and can be downloaded to the Excel.
- * Two channels for PT 100 ohm, precision Temp. measurement.
- * Measurement range : -199.9 to 850.0°C .
- * 0.01° (< 100 degree) , 0.1° resolution, $^{\circ}\text{C}/^{\circ}\text{F}$.
- * Cooperate with 4 wires Pt 100 ohm probe, high precision.
- * Pt 100 probe input cooperate with an 0.00385 alpha coefficient, meet DIN IEC 751.
- * Data hold, Record (max., min.).
- * RS232/USB computer interface.
- * Optional Pt 100 ohm Temp. probe, TP-100.
- * Patented.



two Pt 100Ω probes input
 TP-100 (Optional)

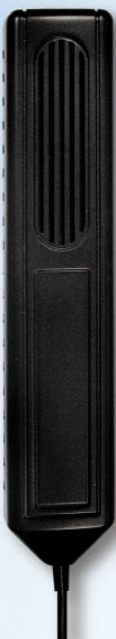
SD card data recorder
Air quality SERIES
Patented



O₂ probe



CO probe



CO₂ probe



Humidity/Temp. probe



SD Card real time recorder
CO₂, CO, O₂, Humidity, Dew point, Temp., 6 in 1
AIR QUALITY METER

Model : AQ-9901SD

- * Real time recorder, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * Air quality measurement application, multi-function : CO₂ (Carbon dioxide), CO (Carbon monoxide), O₂ (Oxygen in air), Humidity, temperature measurement.
- * CO₂ range : 0 to 4,000 ppm x 1 ppm, max. 6000 ppm typically.
- * O₂ range : 0 to 30.0 % x 0.1 %.
- * CO range : 0 to 1,000 ppm x 1 ppm.
- * Humidity range : 5 to 95 %RH.
- * Dew point : -25.3 to 48.9 °C, °C/°F.
- * Temp. range : 0 to 50.0 °C, °C/°F.
- * CO₂ sensor : NDIR, long term reliability.
- * CO, O₂ sensor : Galvanic cell type.
- * Humidity sensor : Precision capacitance sensor
- * Alarm setting with the beeper sound output.
- * Sampling time for data recorder is 2 seconds to 8 hours.
- * Complete set with 4 probes : CO₂/Temp. probe, O₂/Temp. probe, CO/Temp. probe, Humidity/Temp. probe, main meter and the hard carrying case.
- * Meter can cooperate with 2 GB to 16 GB SD card, SD card is optional.
- * RS232/USB computer interface.
- * Patented.



CO₂ probe



Humidity/Temp. probe



**SD Card real time recorder, 6000 ppm
CO₂ METER, + Humidity/Temp.**

Model : CO2-9904SD

- * Real time recorder, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * Measurement : CO₂ (Carbon dioxide), Humidity, Dew point, temperature.
- * CO₂ range : 0 to 6,000 ppm x 1 ppm.
- * Humidity range : 5 to 95 %RH.
- * Dew point : -25.3 to 48.9 °C, °C/°F.
- * Temp. range : 0 to 50.0 °C, °C/°F.
- * CO₂ sensor : NDIR, long term reliability.
- * Humidity sensor : Precision capacitance sensor.

- * Alarm setting with the beeper sound output.
- * Sampling time for data recorder is 2 seconds to 8 hours.
- * 2 probes : CO₂ and Humidity probe.
- * Hard carrying case is included
- * Can use 2 GB to 16 GB SD card (optional).
- * RS232/USB computer interface.
- * Patented.



CO probe

Humidity/Temp. probe



O₂ probe

Humidity/Temp. probe

SD Card real time recorder
CO METER, + Humidity/Temp.

Model : COH-9902SD

- * Real time recorder, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * Measurement : CO (Carbon monoxide), Humidity, Dew point, temperature
- * CO range : 0 to 1,000 ppm x 1 ppm.
- * Humidity range : 5 to 95 %RH.
- * Dew point : -25.3 to 48.9 °C, °C/°F.
- * Temp. range : 0 to 50.0 °C, °C/°F.
- * CO sensor : Galvanic cell type.
- * Humidity sensor : Precision capacitance sensor.
- * Alarm setting with the beeper sound output.
- * Sampling time for data recorder is 2 seconds to 8 hours.
- * Complete set with 2 probes :
- * 2 probes : CO and Humidity probe.
- * Hard carrying case is included
- * Can use 2 GB to 16 GB SD card (optional).
- * RS232/USB computer interface.
- * Patented.

SD Card real time recorder
O₂ METER, + Humidity/Temp.

Model : O2H-9903SD

- * Real time recorder, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * Measurement : O₂ (air), Humidity, Dew point, temperature.
- * O₂ range : 0 to 30.0 % x 0.1 %.
- * Humidity range : 5 to 95 %RH.
- * Dew point : -25.3 to 48.9 °C, °C/°F.
- * Temp. range : 0 to 50.0 °C, °C/°F.
- * O₂ sensor : Galvanic cell type.
- * Humidity sensor : Precision capacitance sensor.
- * Alarm setting with the beeper sound output.
- * Sampling time for data recorder is 2 seconds to 8 hours.
- * 2 probes : O₂ and Humidity probe.
- * Hard carrying case is included
- * Can use 2 GB to 16 GB SD card (optional).
- * RS232/USB computer interface.
- * Patented.



CO₂/Humidity/
Temp. probe



O₂ probe



CO probe



CO₂/Humidity/
Temp. probe



one probe, SD card real time recorder
CO₂ METER, + Humidity/Temp.

Model : CO2-9914SD

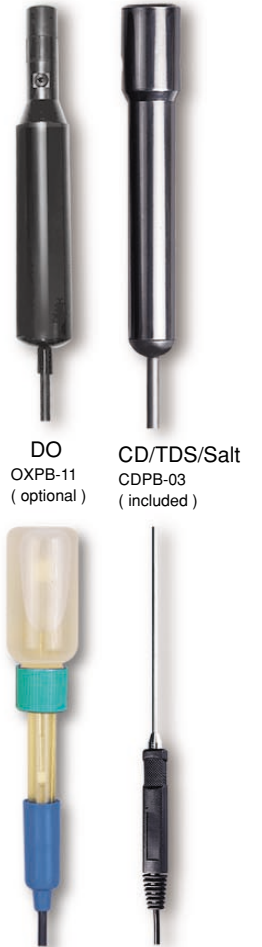
- * One probe include the CO₂, Humidity, Temp. function, easy operation.
- * Real time recorder, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * One probe include the measurement : CO₂ (Carbon dioxide), Humidity, Dew point, temperature.
- * CO₂ range : 0 to 12,000 ppm x 1 ppm.
- * Humidity range : 5 to 95 %RH.
- * Dew point : -25.3 to 48.9 °C, °C/°F.
- * Temp. range : 0 to 50.0 °C, °C/°F.
- * CO₂ sensor : NDIR, long term reliability.
- * Humidity sensor : Precision capacitance sensor.
- * Alarm setting with the beeper sound output.
- * Sampling time for data recorder is 2 seconds to 8 hours.
- * Hard carrying case is included
- * Can use 2 GB to 16 GB SD card (optional).
- * RS232/USB computer interface.
- * Patented.

SD Card real time recorder
CO₂, CO, O₂, Humidity, Dew point, Temp. , 6 in 1
AIR QUALITY METER

Model : AQ-9912SD

- * Real time recorder, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * Air quality measurement application, multi-function : CO₂ (Carbon dioxide), CO (Carbon monoxide), O₂ (Oxygen in air), Humidity, temperature measurement.
- * CO₂ range : 0 to 10,000 ppm x 1 ppm
- * O₂ range : 0 to 30.0 % x 0.1 %.
- * CO range : 0 to 1,000 ppm x 1 ppm.
- * Humidity range : 5 to 95 %RH.
- * Dew point : -25.3 to 48.9 °C, °C/°F.
- * Temp. range : 0 to 50.0 °C, °C/°F.
- * CO₂ sensor : NDIR, long term reliability.
- * CO, O₂ sensor : Galvanic cell type.
- * Humidity sensor : Precision capacitance sensor
- * Alarm setting with the beeper sound output.

- * Sampling time for data recorder are 2 to 3600 seconds.
- * Complete set with 3 probes : CO₂/Humidity/Temp. probe, O₂/Temp. probe, CO/Temp. probe, main meter and the hard carrying case.
- * Dot matrix LCD, will show the CO₂, O₂, CO, Humidity, Temp. value at the same time.
- * Meter can cooperate with 2 GB to 16 GB SD card, SD card is optional.
- * RS232/USB computer interface, send out the CO₂, O₂, CO, Humidity, Temp. value with one batch
- * Optional USB cable, USB-01.
- * Optional data acquisition softwares, SW-U801-WIN, SW-E802.
- * Optional WiFi converter, RSW-923.
- * Patented.



SD Card real time data recorder
ENVIRONMENT METER

Model : EM-9300SD

- * Real time data logger, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * 4 in 1 : Humidity meter, Light meter, Anemometer, Type K/J thermometer.
- * Humidity : 5 to 95 %RH, 0 to 50 °C.
- * Light : 0 to 20,000 Lux.
- * Anemometer : 0.4 to 25.0 m/s.
- * Type K/J thermometer, °C/°F.
- * Type K thermometer : -100 to 1300 °C.
- * Type J thermometer : -100 to 1200 °C.
- * Data hold, Record (Max., Min.).
- * RS232/USB computer interface.
- * Optional type K Temp. probes : TP-01, TP-02, TP-03, TP-04, TP-05.
- * Optional sound level adapter : SL-417.
- * Patented.

SD Card real time data recorder
pH/ORP, DO, CD/TDS, SALT METER

Model : WA-2017SD

- * Real time data logger, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * Multi-function : pH/ORP, Conductivity/TDS, Dissolved oxygen, Salt.
- * pH : 0 to 14.00 pH.
- * ORP (mV) : $\pm 1,999$ mV.
- * Conductivity : 200 uS/2 mS/20 mS/200 mS.
- * TDS : 200/2,000/20,000/200,000 PPM.
- * Salt : 0 to 12.0% salt (% weight).
- * Dissolved oxygen : 0 to 20.0 mg/L.
- * ATC (automatic temperature compensation).
- * Data hold, Record (Max., Min.).
- * RS232/USB computer interface.
- * CD/CDS Salt probe, CDPB-03 is included.
- * Optional electrodes : pH electrode, ORP electrode, CD/TDS/SALT probe, Dissolved oxygen probe, pH ATC probe (TP-07).
- * Patented.



SD Card real time data recorder
DISSOLVED OXYGEN METER
Model : DO-5512SD

- * Real time data logger, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * Use the polar graphic type oxygen probe with temperature sensor, high precision measurement for Dissolved Oxygen (DO) and temperature measurement.
- * Dissolved oxygen range : 0 to 20 mg/L.
- * Auto temp. compensation, Auto Calibration.
- * % salt and height value compensation adjustment.
- * Probe head with diaphragm set and electrolyte are included.
- * Dissolved oxygen probe head can be connected with BOD bottle.
- * Record (Max., Min.), Data hold, zero adjust.
- * RS232/USB computer interface.
- * Patented.



pH electrode optional

SD Card real time data recorder
+ ORP (mV), ATC
pH METER

Model : PH-230SD

- * Real time data logger, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * pH : 0 to 14.00 pH.
- * mV (ORP) : -1999 mV to 1999 mV.
- * Manual temperature compensation.
- * ATC (automatic temperature compensation) via optional Temp. probe (TP-07).
- * Auto calibration for pH 7.0, pH 4.0, pH 10.0 and other value.
- * Data hold, Record (Max., Min.).
- * RS232/USB computer interface.
- * Optional pH electrodes : PE-03, PE-11, PE-01, PE-02, PE-08, PE-06HDA.
- * Wide applications :
Water conditioning, aquariums, beverage, fish hatcheries, food processing, photography, laboratory, paper industry, plating industry, quality control, school & college, water conditioning.
- * Patented.



SD Card real time data recorder
Pt glass electrode
CONDUCTIVITY METER TDS, Salt
Model : CD-4317SD

- * Real time data logger, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * Pt glass electrode, high performance for pure water low conductivity measurement.
- * Conductivity, TDS, Salt measurement.
- * Conductivity :
200 uS/2 mS/20 mS/ 200 mS.
- * Salt : 0 to 12 % salt (% weight).
- * Automatic temp. compensation.
- * It can select Temp. Coefficient of measurement solution.
- * Record (Max., Min.), Data hold, zero adjust.
- * RS232/USB computer interface.
- * Patented.



SD Card real time data recorder
CONDUCTIVITY METER TDS, Salt
Model : CD-4307SD

- * Real time data logger, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * Carbon rod electrode for long life and general application.
- * Conductivity, TDS, Salt measurement.
- * Conductivity :
200 uS/2 mS/20 mS/ 200 mS.
- * Salt : 0 to 12 % salt (% weight).
- * Automatic temp. compensation.
- * It can select Temp. Coefficient of measurement solution.
- * Carbon rod electrode for long life.
- * Record (Max., Min.), Data hold, zero adjust.
- * RS232/USB computer interface.
- * Patented.



**SD Card real time data recorder
+ TDS, Salt
20 uS/200 uS/2 mS/20 mS/200 mS
PRECISION CONDUCTIVITY METER
Model : CD-4318SD**

- * Real time data logger, save the data into the SD memory card and can be downloaded the Excel, extra software is no need.
- * Functions : Conductivity, TDS, Salt, Temp.
- * High conductivity resolution, 5 ranges :
20 uS x 0.01 uS, 200 uS x 0.1 uS,
2 mS x 0.001 mS, 20 mS x 0.01 mS,
200 mS x 0.1 mS
- * TDS measurement, 5 ranges :
20/200/2,000/20,000/200,000 PPM.
- * Pt glass electrode, high performance for pure water low conductivity measurement.
- * Automatic temp. compensation.
- * It can select Temp. Coefficient of measurement solution.
- * Record (Max., Min.), Data hold, zero adjust.
- * RS232/USB computer interface.
- * Patented.

**SD Card real time recorder +TDS Salt Hardness
20uS, 200uS, 2mS, 20mS, 200mS, Resistivity meter
WATER HARDNESS/PURE WATER METER
Model : CD-4319SD**

- * Real time data logger ,save the data into the SD memory card and can be downloaded the Excel, extra software is no need.
- * Function : Conductivity, TDS, Salt, Temp, Hardness.
- * High conductivity resolution, 5 ranges : 20uS x 0.01 uS, 200uS x 0.1uS ,
2 mS x 0.001 mS, 20 mS x 0.01 mS, 200 mS x 0.1 mS.
- * Resistivity, 5 ranges :
100 M Ω-cm, 10 M Ω-cm, 1 M Ω-cm, 100 K Ω-cm, 10 K Ω-cm.
- * TDS, 5 ranges : 20 / 200 / 2,000 / 20,000 / 200,000 ppm.
- * Hardness, 5 ranges : 10 / 100 / 1,000 / 10,000 / 100,000 ppm.
- * Pt glass electrode, high performance for pure water low conductivity measurement.
- * Automatic temp compensation.
- * it can select Temp. Coefficient of measurement solution.
- * Record (Max ,Min) Data hold ,zero adjust.
- * SD card capacity : 1 GB to 16 GB.
- * Dot matrix LCD display.
- * Power by UM3/AA (1.5V) x 6 batteries or DC 9V adapter.
- * RS232/USB computer interface.
- * Patented.



SD Card real time data recorder
Acceleration, Velocity, Displacement
VIBRATION METER

Model : VB-8206SD

- * Real time data logger, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * Acceleration : 200 m/s².
- Velocity : 200 mm/s.
- Displacement : 1.999 mm.
- * Frequency range 10 Hz - 1 KHz, sensitivity relative meet ISO 2954.
- * Professional vibration meter supply with vibration sensor and magnetic base, full set.
- * Metric & Imperial display unit.
- * Max hold, peak value, data hold.
- * Memory (Max., Min.).
- * Zero button.
- * RS232/USB computer interface, Patented.
- * Vibration sensor is the standard accessory.
- * Patented.

SD Card real time data recorder
Acceleration, Velocity
VIBRATION METER

Model : VB-8205SD

- * Real time data logger, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * Acceleration : 200 m/s².
- Velocity : 200 mm/s.
- * Frequency range 10 Hz - 1 KHz, sensitivity relative meet ISO 2954.
- * Professional vibration meter supply with vibration sensor and magnetic base, full set.
- * Metric & Imperial display unit.
- * Max hold, peak value, data hold.
- * Memory (Max., Min.).
- * Zero button.
- * RS232/USB computer interface.
- * Vibration sensor is the standard accessory.
- * Patented.



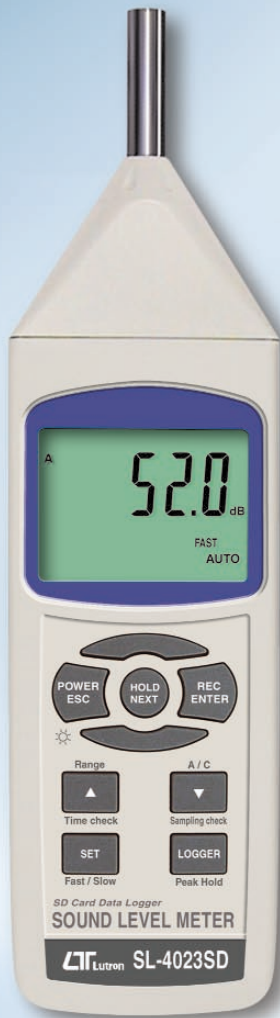
SD Card real time data recorder
Analog output
Acceleration, Velocity, Displacement
VIBRATION METER
Model : VB-8216SD

- * Analog output, it can connect the Spectrum analyzer APP or used for other application.
- * Real time data logger, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * Acceleration : 200 m/s².
Velocity : 200 mm/s.
Displacement : 2.000 mm.
- * Frequency range 10 Hz - 1 KHz, sensitivity relative meet ISO 2954.
- * Professional vibration meter supply with vibration sensor and magnetic base, full set.
- * Metric & Imperial display unit.
- * Max hold, peak value, data hold.
- * Memory (Max., Min.).
- * Zero button.
- * RS232/USB computer interface, Patented.
- * Vibration sensor is the standard accessory.
- * 4P Analog output cable is the standard accessory.

SD Card real time data recorder
Analog output
Acceleration, Velocity
VIBRATION METER
Model : VB-8215SD

- * Analog output, it can connect the the Spectrum analyzer APP or used for other application.
- * Real time data logger, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * Acceleration : 200 m/s².
Velocity : 200 mm/s.
- * Frequency range 10 Hz - 1 KHz, sensitivity relative meet ISO 2954.
- * Professional vibration meter supply with vibration sensor and magnetic base, full set.
- * Metric & Imperial display unit.
- * Max hold, peak value, data hold.
- * Memory (Max., Min.).
- * Zero button.
- * RS232/USB computer interface.
- * Vibration sensor is the standard accessory.
- * 4P Analog output cable is the standard accessory.

SD card data recorder **Patented** SERIES



SD Card real time data recorder **SOUND LEVEL METER, class 2**

Model : SL-4023SD

- * Real time data logger, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * Frequency and time weighting meet IEC61672 class 2.
- * Auto range : 30 to 130 dB.
- * 3 manual ranges : 30 to 80 dB, 50 to 100 dB, 80 to 130 dB.
- * A/C frequency weighting.
- * Fast/slow time weighting.
- * Peak hold, Data hold.
- * Record (Max., Min.).
- * RS232/USB computer interface.
- * Optional wind shield ball, SB-01.
- * Patented.



SD Card real time data recorder **SOUND LEVEL METER, class 1**

Model : SL-4033SD

- * Real time data logger, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * Frequency and time weighting meet IEC61672 class 1.
- * Auto range : 30 to 130 dB.
- * 3 manual ranges : 30 to 80 dB, 50 to 100 dB, 80 to 130 dB.
- * A/C frequency weighting.
- * Fast/slow time weighting.
- * Peak hold, Data hold.
- * Record (Max., Min.).
- * RS232/USB computer interface.
- * Optional wind shield ball, SB-01.
- * Patented.



SD Card real time data recorder **INTEGRATING SOUND LEVEL METER, class 2**

Model : SL-4035SD

- * Real time data logger, save the data into the SD memory card and can be downloaded the Excel, extra software is no need.
- * Frequency and time weighting meet IEC 61672-1 class 2, IEC 60804 type 2, ANSI S 1.43 type 2.
- * Measuring modes : SPL, Leq.
- * Auto range : 30 to 130 dB.
- * Two manual ranges : 30 to 80dB, 80 to 130 dB.
- * A / C frequency weighting.
- * Fast / Slow time weighting.
- * Dot matrix LCD with backlight.
- * RS232/USB computer interface.
- * Optional wind shield ball, SB-01.
- * Patented.

Wind shield ball
SB-01 (Optional)





HEAT INDEX WBGT METER
Model : WBGT-2010SD

- * WBGT (wet-bulb globe temperature) was developed as a monitoring basis at US military training camps and became widespread for the use in workplaces and sports situation. It is suggested in the international standard ISO 7243, OSHA (US Occupation Safety), Japan Society for Occupational Health and the SMA (Sports Medicine Australia) to establish the permissible heat exposure limits in health, sports or other physical activities.
- * Measurement : WBGT value (Indoor/ Outdoor Wet bulb globe temperature), Black globe temperature, Humidity, Air temperature , Wet bulb temperature, Dew point Temp..
- * Measurement function :
 1. Wet bulb globe temperature (WBGT) :
Indoor : 0 °C to 59 °C.
Outdoor : 0 °C to 56 °C.
 2. Black globe Temp (TG) : 0 to 80 °C.
 3. Air temperature (TA) : 0 to 50 °C.
 4. Wet bulb temperature (WB) :
-21.6 °C to 50.0 °C.
 5. Humidity : 5 % to 95 % R.H..
 6. Dew point Temp. : -25.3 °C to 48.9 °C.
- * Unit : °C, °F, Resolution : 0.1 degree.
- * Adjustable WBGT alarm setting value with buzzer sound output.
- * Control and monitor of physical activity in hot

- environment to limit the danger of heat related injuries.
- * Globe temperature measurement uses the Pt sensor, high accuracy.
- * Fast humidity measuring response time.
- * Direct measurement of the radiation effect with a brass black ball in 75 mm dia.
- * Real time SD memory card recorder, it is built-in Clock and Calendar.
- * Real time data recorder , sampling time set from 1 second to 3600 seconds.
- * Manual data record is available, can set the different position (location) No. (1 to 99).
- * Innovation and easy operation, computer is not need to setup extra software. After record the data, just take away the SD card from the meter and plug into the computer, the measured values with the time information (year/month/date/hour/minute/second) can be downloaded to the Excel directly, then user can make the further data or graphic analysis by themselves.
- * SD card capacity : 1 GB to 16 GB.
- * Data hold, record max. and min. reading.
- * Power by UM3/AA (1.5 V) x 6 batteries or DC 9V adapter.
- * RS232/USB PC computer interface.
- * Complete set with the carrying case, SD card is optional.



SD Card real time recorder
SOLAR POWER METER
Model : SPM-1116SD

- * Real time recorder, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * Wide spectral range, long term stability, cosine correction.
- * Range : 2000 W/m², 634 Btu/(ft² x h).
- * Spectral response : 400 to 1100 nm.
- * 3 functions : Solar power, Power integration, Transmission.
- * Cosine corrected.
- * Both meter and sensor probe are built-in the tripod fix nut, easy installation.
- * Separate probe, easy for operation of different measurement environments.
- * Data hold, Record (Max., Min.).
- * SD card capacity :
1 GB to 16 GB, SD card is optional.
- * RS232/USB computer interface.
- * Application : solar radiation measurement, solar power research, physics and optical laboratories solar transmission measurement.
- * Patented.



SD card data recorder Patented SERIES



SD Card real time data recorder PRESSURE METER, full line

Model : PS-9303SD

- * Real time data logger, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * Meter connects with 2, 5, 10, 20, 50, 100 or 400 bar sensor, no calibration procedures are necessary after changing a new sensor.
- * Bar, PSI, Kg/cm², inch Hg, mm Hg, hPa, kPa, inch H₂O, meter H₂O, Atmosphere.
- * Data hold, Memory (Max., Min.).
- * RS232/USB computer interface.
- * Optional pressure sensor, PS100-xxBAR.
- * Patented.



SD Card real time recorder VACUUM METER

Model : VC-9210SD

- * Real time recorder, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * Measurement range :
1125 torr x 1 torr.
1500 mbar x 1 mbar.
- * Units : torr, mm Hg, mbar, kPa, hPa, inch Hg, psi.
- * Data hold, Record (Max., Min.).
- * RS232/USB computer interface.
- * Heavy duty vacuum sensor used for air, oil gas...
- * Application : Automobile, Industrial, laboratory, heating, ventilation, medical hospital...
- * Patented.



PRESSURE SENSOR for PS-9303SD

Model : PS100-xxBAR

- * Optional pressure sensor for PS-9303SD
- * PS100-2BAR : 2 bar sensor.
- * PS100-5BAR : 5 bar sensor.
- * PS100-10BAR : 10 bar sensor.
- * PS100-20BAR : 20 bar sensor.
- * PS100-50BAR : 50 bar sensor.
- * PS100-100BAR : 100 bar sensor.
- * PS100-400BAR : 400 bar sensor.

SD card data recorder Patented SERIES



UVC probe

UVA probe

SD Card real time data recorder + type K/J thermometer UVA, UVC LIGHT METER Model : YK-37UVSD

- * Real time data logger, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * UVA, UVC light measurement.
- * Two UV probes are included : UVA probe and UVC probe.
- * Metallic housing UVC probe.
- * 2 ranges :
 - 2 mW/cm² x 0.001 mW/cm².
 - 20 mW/cm² x 0.01 mW/cm².
- * Data hold, Record (Max., Min.).
- * RS232/USB computer interface.
- * Patented.



SD Card real time data recorder + type K/J thermometer UVA LIGHT METER Model : UVA-365SD

- * Real time data logger, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * Professional UVA light measurement.
- * Metallic UVA probe is included.
- * 2 ranges :
 - 2 mW/cm² x 0.001 mW/cm².
 - 20 mW/cm² x 0.01 mW/cm².
- * Data hold, Record (Max., Min.).
- * RS232/USB computer interface.
- * Patented.



SD Card real time data recorder + type K/J thermometer UVC LIGHT METER Model : UVC-254SD

- * Real time data logger, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * Professional UVC light measurement.
- * Metallic housing UVC probe.

- * 2 ranges :
 - 2 mW/cm² x 0.001 mW/cm².
 - 20 mW/cm² x 0.01 mW/cm².
- * Data hold, Record (Max., Min.).
- * RS232/USB computer interface.
- * Patented.



HUMIDITY CONTENT METER, + type K/J Temp.

Model : MS-7012SD

- * Complete set, meter + humidity probe (MS-71P).
- * Stainless Humidity content probe, used to measure the humidity content value for the materials of Grain, Corn, Rice, Cotton, Paper...
- * Function : Humidity content, Temp., Dew point, Wet bulb, Type K/J Thermometer.
- * Real time data logger, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * Humidity content : 5 to 95 %RH.
- * Humidity/Temp. : 0 to 50.0 °C, °C/°F.
- * Dew point Temp., Wet bulb Temp..
- * Type K Thermometer :
-100 to 1300 °C, °C/°F.
- * Type J Thermometer :
-100 to 1200 °C, °C/°F.
- * Thin-film capacitance sensor for humidity content measurement.
- * Data hold, Record (Max., Min.).
- * Humidity content probe, MS-71P is included.
- * RS232/USB computer interface.



HUMIDITY CONTENT PROBE

Model : MS-71P

- * Standard accessory (included) for MS-7012SD.
- * Size : 10 mm Dia. x 600 mm length.

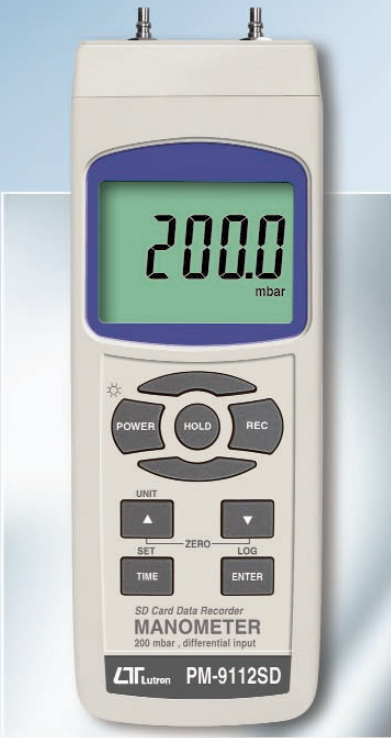
SD Card Data Recorder

RF FIELD STRENGTH POWER METER

Model : EMF-831SD

- * Real time recorder, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * Radio field strength power measurement : GSM, CDMA, TDMA, WiFi, WiMAX Bluetooth, security system, cordless phones, Zigbee....
- * Frequency range : Wide band, 50 MHz to 3 GHz.
- * Sensitivity : -55 dBm to 0 dBm.
- * Measuring units :
mV/m, V/m, uA/m, mA/m, uW/m², mW/m², W/m², uW/m², mW/cm².
- * Backlight graphics dot matrix LCD with 4 function screens, digital and bar-graph display with warning symbol.
- * Beeper will sound for warning if measuring data are over the alert value.
- * Power supply : DC 1.5 V battery (UM4, AA) x 6 PCs, or DC 9V adapter input.
- * Optional data Acquisition softwares, SW-U801-WIN, SW-E802.
- * Optional USB cable, USB-01.

SD card data recorder Patented SERIES



SD Card real time data recorder MANOMETER, 200 mbar, differential input

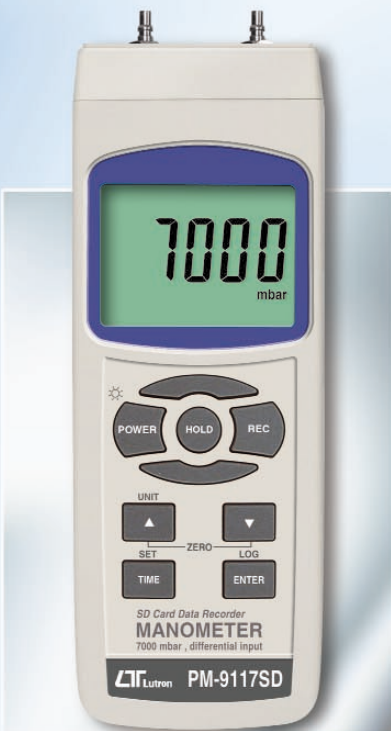
Model : PM-9112SD

* All the function are same as PM-9110SD.
but the max. range is 200 mbar instead of
2000 mbar.

SD Card real time data recorder MANOMETER, 2000 mbar, differential input

Model : PM-9110SD

- * Real time data logger, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * Dual & differential input, 2000 mbar max. range.
- * Applications : Industry, laboratory, heating, ventilation, medical hospital, used for air or non-corrosive and non-ionized gas & liquid.
- * Single lugs for pipe connection.
- * 10 kind display units :
mbar, psi, Kg/cm², mm Hg, inch Hg, meter H₂O, inch H₂O, hpa, kpa Atmosphere.
- * Built-in Zero button on the front panel, easy to offset the zero value.
- * Data hold, Record (Max., Min.).
- * RS232/USB computer interface.
- * Patented.



SD Card real time data recorder MANOMETER, 7000 mbar, differential input

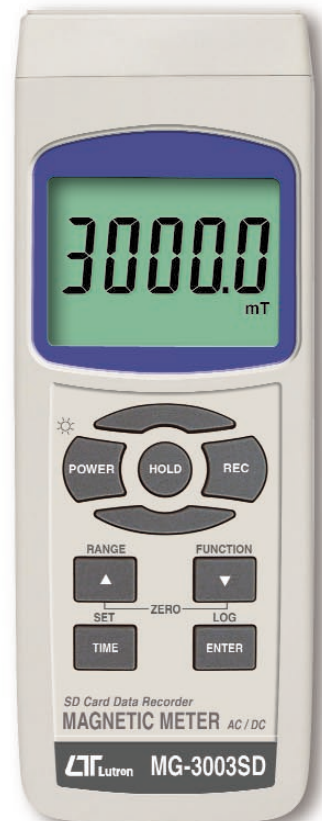
Model : PM-9117SD

* All the functions are same as PM-9110SD.
but the max. range is 7000 mbar instead of
2000 mbar.

SD Card real time data recorder AC/DC MAGNETIC METER

Model : MG-3003SD

- * Real time data logger, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * Wide range, general purpose magnetic measurement.
- * Units : G (Gauss), mT (milli Tesla).
- * DC or AC magnetic measurement.
- * DC magnetic ranges :
300.00 mT, 3000.0 mT.
- * AC magnetic ranges :
150.00 mT, 1500.0 mT.
- * Resolution :
0.01 mT/0.1 mT, 0.1 G/1 G.
- * DC polarity : N/S (north/south pole).
- * Sensor : Hall sensor.
- * Zero, Data hold. Record (Max., Min.).
- * RS232/USB computer interface.
- * Patented.



SD Card real time recorder

LED LIGHT METER

Model : LX-1148SD

- * Real time data logger ,save the data into the SD memory card and can be downloaded the Excel, extra software is no need.
- * LED light meter measure White, Red, Yellow, Green, Blue, and Purple LED and Standard Lighting.
- * 2,000/20,000/50,000 Lux, auto range.
- * Units : Lux, Foot-Candle.
- * Light sensor used the exclusive photo diode & color correction filter, spectrum meet C.I.E. photopic.
- * Light sensor's cosine correction factor meet standard.
- * Separate Light Sensor allows user to measure the light at an optimum position.
- * SD card capacity : 1 GB to 16 GB.
- * Microcomputer circuit provides high accuracy.
- * Zero key function.
- * LCD with backlight, easy reading.
- * Data hold, record max. and min. reading.
- * Power by DC 1.5 V battery (UM-3, AA) x 6 Pcs or DC 9V adapter.
- * RS232/USB PC COMPUTER interface.





+ Differential Manometer
SD Card real time data recorder
PITOT TUBE ANEMOMETER

Model : PAM-9212SD

- * Dual & differential input, ± 100 mbar max. range.
- Air Velocity : 1 to 100.0 m/s
- * Application : Industrial, laboratory, heating, ventilation, medical hospital, used for air or not corrosive and not ionized gas & liquid.
- * Sensor is built inside the housing.
- * Single plugs for pipe connection.
- * 12 kind display units (mbar, Kg/cm², mm Hg, meter H₂O Atmosphere, psi, inch Hg, inch H₂O, hpa, kpa, m/s, fpm) select by push button on the front panel.
- * Auto shut off saves battery life.
- * Zero button on the front panel, easy to offset the zero value.
- * Microprocessor circuit assures maximum possible accuracy, provides special functions and features.
- * Super large LCD display .
- * Real time data logger, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * SD card capacity : 1 GB to 16 GB.
- * LCD with green light backlight, easy reading.
- * It can default auto power off or manual power off.
- * Data hold, record max. and min. reading.
- * Power by UM3/AA (1.5 V) x 6 batteries or DC 9V adapter.
- * RS232/USB PC COMPUTER interface.



SD Card real time data recorder
4 in 1, + Photo tach., IR Temp., Type K Temp.
VIBRATION METER

Model : VB-8227SD

- * Real time data logger, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * Multi-function, 4 in 1, one meter combine:
 1. Vibration meter.
 2. Photo tachometer.
 3. IR Thermometer.
 4. Type K Thermometer.
- * Vibration :
 1. Acceleration : 200 m/s².
 2. Velocity : 200 mm/s.
 3. Frequency range : 10 Hz to 1 KHz, meet IOS 2954.
- * Photo tachometer :
 1. High intensity white LED light beam for photo tachometer, safety and save the power energy.
 2. Range: 10 to 99,999 RPM.



- * IR (infrared) Thermometer : Range : -20 to 305 °C, °C/°F.
- * Type K Thermometer : Range : -100 to 1300 °C, °C/°F.
- * SD memory card capacity : 1 GB to 16 GB.
- * Housing with tripod fix nut.
- * Hold button , Record (Max./Min/).
- * RS232/USB computer interface.
- * Power: 1.5V (UM-3/AA) battery x 6 PCs or DC9V adapter in.
- * Optional type K Temp. probes : TP-01, TP-02A , TP-03, TP-04, TP05.



SD Card real time data recorder
PM2.5, CO₂, %RH, Temp., Barometer
AIR QUALITY MONITOR/RECORDER

Model : PM-1064SD

- * Monitoring air pollutant source from dust, petrochemical industry, steel-making plant, thermal power plant, restaurant, smoke, burning plants, driving automobiles.
- * The meter is a real-time air quality monitor instrument used to monitor the concentration of PM2.5, humidity and temperature in the indoor environment.
- * PM2.5 : 0 to 250 $\mu\text{g}/\text{m}^3$
- * Humidity : 5 to 95 %RH.
- * Temperature : 0 to 50 °C, °C/°F.
- * CO₂ : 0 to 4,000 ppm, max. 6000ppm.
- * Barometer : 10 to 1100 hPa, mmHg, inHg.
- * PM2.5 time weighted average reading.
- * Data hold, Record (Max, Min).
- * Alarm setting with the beeper sound output.
- * Health index (0 - 9) detection and alarm.
- * Built-in clock and Calendar, real time data record with SD memory card, sampling time can be set from 2 to 3600 seconds. Just slot the SD card into the computer, all the measured values with the time information (year, month, data, hour, minute, second) can be downloaded to the Excel Directly, then user can make the further data analysis by themselves.
- * Manual data record is available, can set the different position(location) No.(1 to 99).
- * SD card capacity : 1 GB to 32 GB.
- * Dot matrix LCD display.
- * Power by UM3/AA (1.5V) x 6 batteries or DC 9V adapter.
- * RS232/USB PC computer interface.

SD Card real time data recorder
PM2.5, %RH, Temp.
AIR QUALITY MONITOR/RECORDER

Model : PM-1063SD

- * Monitoring air pollutant source from dust, petrochemical industry, steel-making plant, thermal power plant, restaurant, smoke, burning plants, driving automobiles.
- * The meter is a real-time air quality monitor instrument used to monitor the concentration of PM2.5, humidity and temperature in the indoor environment.
- * PM2.5 : 0 to 250 $\mu\text{g}/\text{m}^3$.
- * Humidity : 5 to 95 %RH.
- * Temperature : 0 to 50 °C, °C/°F.
- * PM2.5 time weighted average reading.
- * Data hold, Record (Max, Min).
- * Alarm setting with the beeper sound output.
- * Health index (0 to 9) detection and alarm.
- * Built-in clock and Calendar, real time data record with SD memory card, sampling time can be set from 2 to 3600 seconds. Just slot the SD card into the computer, all the measured values with the time information (year, month, data, hour, minute, second) can be downloaded to the Excel Directly, then user can make the further data analysis by themselves.
- * Manual data record is available, can set the different position (location) No. (1 to 99).
- * SD card capacity : 1 GB to 32 GB.
- * Dot matrix LCD display.
- * Power by UM3/AA (1.5V) x 6 batteries or DC 9V adapter.
- * RS232/USB PC computer interface.

**PM2.5, %RH, Temp., RS232/USB
AIR QUALITY MONITOR**

Model : PM-1053

- * Monitoring air pollutant source from dust, petrochemical industry, steel-making plant, thermal power plant, restaurant, smoke, burning plants, driving automobiles.
- * The meter is the air quality monitor instrument, used to monitor the concentration of PM2.5, humidity and temperature in the indoor environment.
- * PM2.5 : 0 to 250 $\mu\text{g}/\text{m}^3$.
- * Humidity : 5 to 95 %RH.
- * Temperature : 0 to 50 $^{\circ}\text{C}$, $^{\circ}\text{C}/^{\circ}\text{F}$.
- * Data hold, Record(Max,Min).
- * Health index (0-9) detection and alarm.
- * Dot matrix LCD display.
- * Power by UM3/AA (1.5V) X 6 batteries or DC 9V adapter.
- * RS232/USB PC computer interface.
- * Optional USB cable, USB-01.
- * Optional RS232 cable, UPCB-02.
- * Optional data acquisition software, SW-U801-WIN.
- * Optional Excel data acquisition software, SW-E802.
- * Optional real time SD CARD data recorder, DL-9602SD.
- * Optional RS232 to WiFi converter, RSW-923 and APP (Andriod, IOS) are available.



SD card data recorder Patented SERIES



UPCB-03 (included)



Real time data recorder SD CARD DATA LOGGER Model : DL-9602SD

- * Real time SD memory card Data logger, it can cooperate with most LUTRON instruments if it is built-in the computer interface.
- * Innovation and easy operation, computer is not need to setup extra software, just takeaway the SD card from the DL-9602SD and plug it into the computer, then the measured values with the time information (year/month/date/hour/minute/second) can be downloaded to the Excel directly. User can make the further data or graphic analysis in the Excel by themselves.
- * Built-in Clock and Calendar, real time data recorder, sampling time can be set from 2 seconds to 8 hours 59 minutes 59 seconds.

- * Manual data logger is available (set the sampling time to 0), during executing the manual data logger function, it can set the different place location No. (place 1 to place 99).
- * SD card (optional) capacity : 1 GB to 16 GB.
- * Can set max. 9 channel data inputs with default.
- * DC 1.5V battery (UM-3 , AA) x 6 or DC 9V adapter in.
- * LCD with green light backlight, easy reading.
- * RS232/USB computer interface.



UPCB-03 (included)



Optional
Hard carrying case
CA-08



DMM with Data recorder set

Model : DM-9680/DL-9602SD SET

* Complete set includes :

1. MULTIMETER, DM-9680.
2. SD card data recorder, DL-9602SD.
3. Interface cable, UPCB-03.

* Complete set is used to record the DMM's measurement values (ACA, DCA, ACV, DCV ohms.....) with the real time information.

* Optional hard carrying case (370 x 310 x 115 mm), CA-08.

* Optional AC to DC 9V power adapter for DM-9680, DL-9602SD is available.

**RS232 /USB computer interface
MULTIMETER**

Model : DM-9680

* RS232 computer interface output.

* Multi-functions, 29 ranges, DCV, ACV, ohms, DCA, ACA, hFE, Diode, Beeper.

* ACV/DCV : 200 mV/2/20/200/600 V

* ACA/DCA : 200 uA/2mA/20mA/200mA/10A

* Ohms : 200/2K/20K/200K/2M/20M

* Meter size : 185 x 87 x 39 mm. 18 mm LCD.

* Power : 006P DC 9V battery.

* RS232/USB computer interface.

**Real time data recorder
SD CARD DATA LOGGER**

Model : DL-9602SD

* Real time SD memory card Data logger, it can cooperate with most LUTRON instruments if it is built-in the computer interface.

* Innovation and easy operation, computer is not need to setup extra software, just take away the SD card from the DL-9602SD and plug into the computer, then the measured values with the time information (year/month/date/hour /minute/ second) can be downloaded to the Excel directly. User can make the further data or graphic analysis in the Excel by themselves.

* Built-in Clock and Calendar, real time data recorder, sampling time can be set from 2 seconds to 8 hours 59 minutes 59 seconds.

* Manual data logger is available (set the sampling time to 0), during executing the manual data logger function, it can set the different place location No.(place 1 to place 99).

* Signal input : Accept DM-9680's RS232 signal via interface cable UPCB-03.

* SD card (optional) capacity : 1 GB to 16 GB.

* DC 1.5V battery (UM-3 , AA) x 6 or DC 9V adapter in.

* LCD with green light backlight, easy reading.

Clamp meter with Data recorder set



UPCB-03 (Included)



Optional
Hard carrying case
CA-08



Clamp meter with Data recorder set Model : CM-9930R/DL-9602SD SET

- * Complete set are includes :
 1. Clamp meter CM-9930R.
 2. SD card data recorder, DL-9602SD.
 3. Interface cable, UPCB-03.
- * Complete set is used to record the Clamp meter's measurement values (ACA, DCA, ACV, DCV ohms.....) with the real time information.
- * Optional hard carrying case (370 x 310 x 115 mm), CA-08.
- * Optional AC to DC 9V power adapter for DL-9602SD, CM-9930R are available.

RS232/USB, True RMS 2000 A DCA/ACA CLAMP METER + DMM Model : CM-9930R

- * RS232 computer interface output.
- * Heavy duty, CATIII-1000V.
- * 4,000 counts, auto range.
- * ACA(2000A, 400A), DCA(2000A, 400A), DCV, ACV, Capacitance, Frequency, Duty cycle, Relative, Continuity, ohms.
- * 50 mm measuring conductor size.
- * 400 uA - 400 mA small direct current input.
- * Size : 255 x 73 x 38 mm.
- * Power : 006P DC 9V battery.
- * RS232/USB computer interface.

Real time data recorder SD CARD DATA LOGGER Model : DL-9602SD

- * Real time SD memory card Data logger, it can cooperate with most LUTRON instruments if it is built-in the computer interface.
- * Innovation and easy operation, computer is not need to setup extra software, just take away the SD card from the DL-9602SD and plug it into the computer, then the measured values with the time information (year/month/date/hour /minute/ second) can be downloaded to the Excel directly. User can make the further data or graphic analysis in the Excel by themselves.
- * Built-in Clock and Calendar, real time data recorder, sampling time can be set from 2 seconds to 8 hours 59 minutes 59 seconds.

- * Manual data logger is available (set the sampling time to 0), during executing the manual data logger function, it can set the different place location No.(place 1 to place 99).
- * Signal input : Accept CM-9930R's RS232 signal via interface cable UPCB-03.
- * SD card (optional) capacity : 1 GB to 16 GB.
- * DC 1.5V battery (UM-3 , AA) x 6 or DC 9V adapter in.
- * LCD with green light backlight, easy reading.

SD card data recorder
SD card data logger
Patented



SD Card real time data logger
3 channels, type K Temp.
THERMOMETER DATA RECORDER
Model : MTM-380SD

- * Recorder with real time data logger, save the measuring data along the time information (year, month, date, hour, minute, second) into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * Show 3 channels (CH1, CH2, CH3) Temp. values in the same LCD.
- * Type K Thermometer : -50 to 1300 °C, °C/°F.
- * Large LCD display, easy readout.
- * Low power consumption and long battery life when using battery power.
- * DC 1.5V (UM-4/AAA) battery x 6 PCs or DC 9V adapter in.
- * RS232/USB computer interface.
- * Size : 132 x 80 x 32 mm.
- * Type K probe, TP-01 x 1 PC is included.
- * Optional Temp. probes : TP-01, TP-02A, TP-03, TP-04, TP-05.
- * Patented.



SD Card real time data logger
HUMIDITY/TEMP. DATA RECORDER
Model : MHT-381SD

- * Recorder with real time data logger, save the measuring data along the time information (year, month, date, hour, minute, second) into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * Humidity : 10 to 90 %RH.
- * Temperature : 0 to 50.0 °C, °C/°F.
- * Show humidity and temperature values in the same LCD.
- * Large LCD display, easy readout.
- * Low power consumption and long battery life when using battery power.
- * DC 1.5V (UM-4/AAA) battery x 6 PCs or DC 9V adapter in.
- * RS232/USB computer interface.
- * Size : 132 x 80 x 32 mm.
- * Patented.

SD card data recorder
SD card data logger
Patented



SD Card real time data logger
HUMIDITY/BAROMETER/TEMP.
DATA RECORDER

Model : MHB-382SD

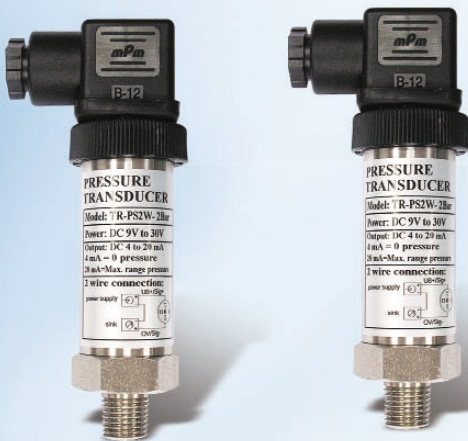
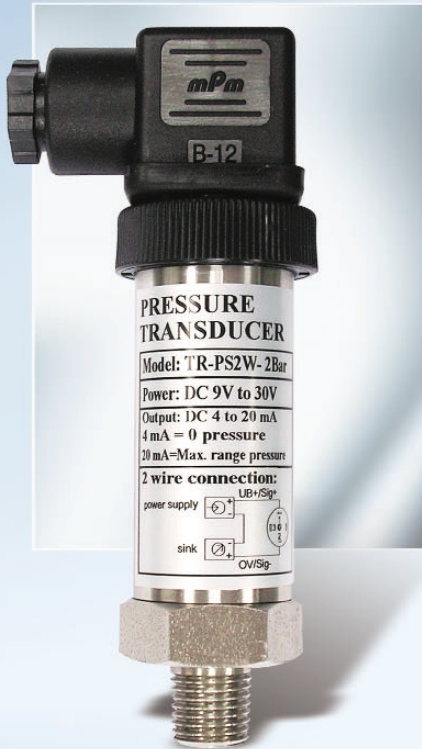
- * Recorder with real time data logger, save the measuring data along the time information (year, month, date, hour, minute, second) into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * Humidity : 10 to 90 %RH.
- * Temperature : 0 to 50.0 °C, °C/°F.
- * Barometer ; 10 to 1100 hPa, mmHg, inHg.
- * Show barometer, humidity and temperature values in the same LCD.
- * Large LCD display, easy readout.
- * Low power consumption and long battery life when using battery power.
- * DC 1.5V (UM-4/AAA) battery x 6 PCs or DC 9V adapter in.
- * RS232/USB computer interface.
- * Size : 132 x 80 x 32 m.

SD Card real time data logger
CO₂/HUMIDITY/TEMP. DATA RECORDER

Model : MCH-383SD

- * Recorder with real time data logger, save the measuring data along the time information (year, month, date, hour, minute, second) into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * CO₂ range : 0 to 4000 ppm, max. 6000 ppm typically.
- * Humidity : 10 to 90 %RH.
- * Temperature : 0 to 50.0 °C, °C/°F.
- * Show CO₂, humidity and temperature values in the same LCD.
- * Large LCD display, easy readout.
- * Power supply from DC 9V adapter in, power adapter is included.
- Also need DC 1.5V (UM-4/AAA) battery x 6 PCs for clock power supply.
- * RS232/USB computer interface.
- * Size : 132 x 80 x 32 mm.

SD card data recorder
SD card data logger
Patented



2 WIRES PRESSURE TRANSMITTER

Model : TR-PS2W-xxBAR

- * Range : 2, 5, 10, 20, 50, 100, 400 BAR.
- * Output : 4 to 20 mA DC.
4 mA = 0 pressure, 20 mA = full scale pressure.
- * 2 wires, both for signal and power source from MPS-384SD.
- * Power : DC 9V to 30V.
- * Precision ceramic type pressure sensor.
- * External zero and span adjustment.
- * Output with socket, easy replacement.
- * Allow high cable load resistance, transmitter can be installed far away from the controller/indicator.
- * Protection for the reverse wires connecting.
- * Except MPS-384SD, TR-PS2W also can cooperate the " Pressure controller/monitor, PPS-9312 " or the " 4-20 mA Controller/Alarm/ Indicator CT-2012 ".

SD Card real time data logger

PRESSURE DATA RECORDER, 3 channels

Model : MPS-384SD

- * Recorder with real time data logger, save the measuring data along the time information (year, month, date, hour, minute, second) into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * Input signal : 4 to 20 mA, 2 wires, power source DC 9 V.
- * Show 3 channels (CH1, CH2, CH3) pressure values in the same LCD.
- * Each channel can be connected with 2, 5, 10, 20, 50, 100, 400 bar sensor, no calibration procedures are necessary when changing the new pressure sensor .
- * Unit select :
Bar, PSI, Kg/cm², inch Hg, mm Hg, inch H₂O, meter H₂O, Atmosphere, kPa.
- * Large LCD display, easy readout.
- * RS232/USB computer interface.
- * Size : 132 x 80 x 32 mm.
- * Power supply from DC 9V adapter in, power adapter is included.
Also need DC 1.5V (UM-4/AAA) battery x 6 PCs for clock power supply.
- * Optional pressure sensor, TR-PS2W-xxBAR.
- * Patented.

**SD card data recorder
Vibration transmitter
Vibration controller
Patented**



MVB-385SD

+



CT-2012

**high/low control and alarm system
VIBRATION CONTROLLER**

Model : MVB-385SD + CT-2012

- * CT-2012 is the 4 to 20 mA Controller /Alarm/Indicator, for detailed specifications please refer to page 87.
- * MVB-385SD is built-in 4 to 20 mA output signal, if it is connected to the CT-2012, the whole system will become the high performance Vibration controller and Alarm system.



**SD Card real time data logger
4 to 20 mA transmitter output
VIBRATION DATA RECORDER**

Model : MVB-385SD

- * Recorder with real time data logger, save the measuring data along the time information (year, month, date, hour, minute, second) into the SD memory card and can be downloaded to the Excel, extra software is not need.
- * Frequency range 10 Hz - 1 KHz, sensitivity relative meet ISO 2954.
- * Meter is supplied with vibration sensor and magnetic base, full set.
- * Acceleration : 200 m/s².
Velocity : 200 mm/s.
- * Built-in the 4 to 20 mA output signal, it can cooperate with the 4 to 20 mA controller to be used as the vibration controller.
- * Metric & Imperial display unit.
- * Large LCD display, easy readout.
- * Power supply from DC 9V adapter in, power adapter is included.
Also it needs DC 1.5V (UM-4/AAA) battery x 6 PCs for clock power supply.
- * RS232/USB computer interface.
- * Size : 132 x 80 x 32 mm.

SD card data recorder SD card data logger Patented SERIES



SD Card real time data logger 3 channels 4-20 mA CURRENT RECORDER Model : MMA-386SD

- * 4-20 mA current loop recorder with real time data logger, save the measuring data along the time information (year, month, date, hour, minute, second) into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * Input signal : 4 to 20 mA, 3 channels.
- * Resolution : 0.01 mA.
- * Input channels : 3 channels.
- * Show 3 channels (CH1, CH2, CH3) 4-20 mA current loop values in the same LCD.
- * Records time and date stamped 4-20 mA DC current data from external sensors, transducers and many other sources.
- * Applications :
 - 4 to 20 mA recording
 - pH recording
 - Low level signal monitoring
 - Photovoltaic studies
 - Battery studies
 - Biological sensor monitoring
 - Factory process control
 - Research and development
 - Medical and Pharmaceutical
 - Environmental studies
- * Large LCD display, easy readout.
- * Low power consumption and long battery life when using battery power.
- * DC 1.5V (UM-4/AAA) battery x 6 PCs or optional DC 9V adapter in.
- * RS232/USB computer interface.
- * Size : 132 x 80 x 32 mm.



SD card real time data logger DC 300.0 mV/3000 mV 3 channels VOLTAGE RECORDER Model : MMV-387SD

- * 300.0/3000 mV recorder with real time data logger, save the measuring data along the time information (year, month, date, hour, minute, second) into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * Input signal : 300.0 mV/3000 mV, 3 channels.
- * Resolution : 0.1 mV/1 mV.
- * Show 3 channels (CH1, CH2, CH3) mV measurement values in the same LCD.
- * Records time and date along DC mV value from external sensors, transducers and many other sources.
- * Large LCD display, easy readout.
- * Applications :
 - 300.0 mV/3000 DC mV recording.
 - Current probe recording
 - pH recording
 - Low level signal monitoring
 - Photovoltaic studies
 - Battery studies
 - Biological sensor monitoring
 - Factory process control
 - Research and development
 - Medical and Pharmaceutical
 - Environmental studies
- * Low power consumption and long battery life when using battery power.
- * DC 1.5V (UM-4/AAA) battery x 6 PCs or optional DC 9V adapter in.
- * RS232/USB computer interface.

Sound SD card recorder % RH, Temp., Baro monitor



Long battery life, USB interface HUMIDITY/TEMP. MONITOR

Model : MHT-371

- * Humidity : 10 to 90 %RH.
- * Temperature : 0 to 50.0 °C, °C/°F.
- * Show humidity and temperature values in the same LCD.
- * Large LCD display, easy readout.
- * Low power consumption and long battery life when using battery power.
- * DC 1.5V (UM-4/AAA) battery x 6 PCs or DC 9V adapter in.
- * RS232/USB computer interface.
- * Size : 132 x 80 x 32 mm.
- * Optional USB cable, USB-01.
- * Optional data acquisition softwares, SW-U801-WIN, SW-E802.
- * Optional WiFi converter, RSW-923.

Long battery life, USB interface HUMIDITY/BAROMETER/TEMP. MONITOR

Model : MHB-372

- * Humidity : 10 to 90 %RH.
- * Temperature : 0 to 50.0 °C, °C/°F.
- * Barometer ; 10 to 1100 hPa, mmHg, inHg.
- * Show barometer, humidity and temperature values in the same LCD.
- * Large LCD display, easy readout.
- * Low power consumption and long battery life when using battery power.
- * DC 1.5V (UM-4/AAA) battery x 6 PCs or DC 9V adapter in.
- * RS232/USB computer interface.
- * Size : 132 x 80 x 32 m.
- * Optional USB cable, USB-01.
- * Optional data acquisition softwares, SW-U801-WIN, SW-E802.
- * Optional WiFi converter, RSW-923.



Microphone with clip
(included)

SD Card real time data logger 4 to 20 mA transmitter output SOUND LEVEL METER, Data recorder

Model : MSL-388SD

- * Real time datalogger ,save the measurement data along the time information (Year, month, date, hour, minute, second) into the SD memory card and can be downloodeed the Excal ,extra software is no need.
- * Frequency and time weighting meet ANSI 1.4 / IEC61672-2013 class 2.
- * Auto range : 30 to 130 dB.
- * 3 manual range : 30 to 80 dB, 50 to 100 dB, 80 to 130 dB.
- * A/C frequency weighting.
- * Fast/Slow time weighting.
- * Peak hold, Data hold.
- * 4 to 20 mA,signal output.
- * Record (Max ,Min) Data hold ,zero adjust.
- * SD card capacity : 1 GB to 32 GB
- * Dot matrix LCD display.
- * Power by UM4/AAA (1.5V) x 6 batteries or DC 9V adapter
- * RS232/USB computer interface.
- * Patented.

USB memory stick data recorder 4 channels Temp., Environment Patented

SERIES



Optional Temp. probe



USB Memory Stick Data Record 4 channels THERMOMETER

Model : TM-947USB

- * Real time recorder, save the data into the USB memory stick and can be downloaded to the Excel, extra software is no need.
- * Type K/J/R/S/E/T, Pt 100 ohm, 4 displays.
- * 4 channels (T1, T2, T3, T4), T1-T2, °C/°F.
- * Display 4 channels Temp. at the same time.
- * Type K : -100 to 1300 °C.
- * Type J : -100 to 1150 °C.
- * Pt 100 ohm : -199 to 850 °C.
- * °C/°F, 0.1 degree/1 degree.
- * Data hold, Record (max., min.),
- * RS232/USB computer interface.
- * Optional Type K Temp. probes:
TP-01, TP-02A, TP-03, TP-04, TP-05.
- * Optional Pt 100 ohm Temp. probe, TP-101.
- * Optional USB memory stick : 1G to 16G.
- * Patented.

USB Memory Stick Data Record ENVIRONMENT METER

Model : EM-9300USB

- * Real time recorder, save the data into the USB memory stick and can be downloaded to the Excel, extra software is no need.
- * 4 in 1 :
Humidity meter, Light meter, Anemometer, Type K/J thermometer.
- * Humidity : 0 to 95 %RH, 0 to 50 °C.
- * Light : 0 to 20,000 Lux.
- * Anemometer : 0.4 to 25 m/s.
- * Type K/J thermometer, °C/°F.
- * Type K thermometer : -100 to 1300 °C.
- * Type J thermometer : -100 to 1200 °C.
- * Data hold, Record (Max., Min.).
- * RS232/USB computer interface.
- * Optional type K Temp. probes :
TP-01, TP-02, TP-03, TP-04, TP-05.
- * Optional sound level adapter : SL-417.
- * Optional USB memory stick : 1G to 16G.
- * Patented.

4 channels Vibration meter Patented SERIES



Optional vibration sensor , VB-83

Optional
Tip type
vibration
sensor ,
VB-84



SD Card real time data recorder 4 channels VIBRATION METER

Model : BVB-8207SD

- * 4 channels vibration meter, use SD card to save the data along with time information, paperless.
- * Real time data logger, save the measuring data along the time information (year, month, date, hour, minute, second) into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * Show CH1 to CH4 vibration values in the same LCD.
- * Time information : Year, Month, Date, Hour, Minute and Second.
- * Sampling setting : 1 to 3600 seconds.
- * Function : Acceleration/Velocity/Displacement.
- * Acceleration : 200 m/s².
- Velocity : 200 mm/s.
- Displacement (p-p) : 2 mm.

- * Max hold, peak value, data hold, Max./Min..
- * Memory card size : 1 GB to 16 GB.
- * Supper large LCD with backlight, easy reading.
- * Data hold, Record (Max., Min.).
- * RS232/USB computer interface.
- * Include 1 PC sensor vibration set, VB-83.
- * Extra vibration sensor set, VB-83 can be ordered. When changing the VB-83, it is not necessary to make the new calibration again.
- * Optional Tip type vibration sensor set, VB-84.
- * DC 1.5V (UM-3/AA) x 8 PCs or DC 9V adapter in.
- * Patented.

X, Y, Z 3 Axis Vibration meter Patented SERIES



Optional vibration sensor , VB-83

D Card real time data recorder

X, Y, Z, 3 Axis

VIBRATION METER

Model : BVB-8217SD

- * X, Y, Z, 3 Axis vibration meter.
- * 3 channels vibration meter, use SD card to save the data along with time information, (year, month, date, hour, minute, second) into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * Show X, Y, Z (CH1 to CH3) and 3 Axis vibration values in the same LCD.
- * Sampling setting : 1 to 3600 seconds.
- * Function :
Acceleration/Velocity/Displacement.
- * Acceleration : 200 m/s^2 .
- Velocity : 200 mm/s .
- Displacement (p-p) : 2 mm .

- * Max hold, peak value, data hold, Max./Min..
- * Memory card size : 1 GB to 16 GB.
- * Supper large LCD with backlight, easy reading.
- * Data hold, Record (Max., Min.).
- * RS232/USB computer interface.
- * Include 1 PC sensor vibration set, VB-83.
- * Extra vibration sensor set, VB-83 can be ordered. When changing the VB-83, it is not necessary to make the new calibration again.
- * DC 1.5V (UM-3/AA) x 8 PCs or DC 9V adapter in.
- * Patented.

Bench type 12 channels Temp. recorder pH/ORP, DO, CD/TDS SERIES



SD Card real time data logger 12 channels TEMPERATURE RECORDER Model : BTM-4208SD

- * 12 channels Temperature recorder, use SD card to save the data along with time information, paperless.
- * Real time data logger, save the measuring data along the time information (year, month, date, hour, minute, second) into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * Channels no. : 12 channels (CH1 to CH12) temperature measurement.
- * Sensor types :
Type J/K/T/E/R/S thermocouples.
- * Auto data logger or manual data logger.
- * Data logger sampling time range : 1 to 3600 seconds.
- * Type K thermometer : -100 to 1300 °C
- * Show CH1 to CH8 or CH9 to CH12 in the same LCD.
- * Display resolution : 1 degree/0.1 degree.
- * Time information : Year, Month, Date, Hour, Minute and Second.
- * Memory card size : 1 GB to 16 GB.
- * Super large LCD with backlight, easy reading.
- * Data hold, Record (Max., Min.).
- * RS232/USB computer interface.
- * Optional type K temperature probes : TP-01, TP-02A, TP-03, TP-04, TP-05.
- * DC 1.5V (UM-3/AA) x 8 PCs or DC 9V adapter in.



Probe 1



Probe 2



...



...



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Temp. probe (optional)



Bench type, RS232/USB, Data logger pH/ORP, DO, CD/TDS METER Model : WA-2015

- * Professional bench meter for multi-function : pH/ORP, Conductivity/TDS, Dissolved oxygen.
- * Dissolved oxygen : 0 to 20.0 mg/L.
- * pH : 0 to 14.00 pH.
- * ORP (mV) : $\pm 1,999$ mV.
- * Conductivity : 200 uS/2 mS/20 mS/200 mS.
- * TDS : 200/2,000/20,000/200,000 PPM.
- * Large LCD with green color backlight.
- * ATC (automatic temperature compensation).
- * Real time 16,000 no. data logger.
- * Data hold, Record (Max., Min.), RS232.
- * Optional electrodes :
pH electrode, ORP electrode (ORP-14), CD/TDS probe, Dissolved oxygen probe, pH ATC probe (TP-07).
- * RS232/USB computer interface.
- * DC 1.5V (UM-3/AA) x 8 PCs or DC 9V adapter in.



DO
OXPB-11
(optional)



CD/TDS/Salt
CDPB-03
(optional)



pH
PE-03
PE-11
PE-01
PE-02
PE-08
PE-06HDA
(optional)



pH ATC probe
TP-07
(optional)

Bench type SERIES pH/ORP, Conductivity/TDS



Bench type, RS232/USB, Data logger CONDUCTIVITY METER, TDS

Model : BCT-4308

- * Professional bench type meter with large LCD display with green color backlight, easy reading.
- * Two in one : Conductivity and TDS (Total dissolved solids) measurement.
- * Conductivity : 200 uS/2 mS/20 mS/200 mS.
- * It can select Temp. Coefficient of measurement solution.
- * ATC for the conductivity/TDS measurement.
- * Real time data logger (record year, month, date, hour, minute, second), 16,000 data logger.
- * Wide sampling time adjustment.
- * Auto data logger, manual data logger.
- * RS232/USB computer interface.
- * Data hold, Record (Max., Min.).
- * It can default auto power off or manual power off.
- * DC 1.5V (UM-3/AA) x 8 PCs or DC 9V adapter in.



Bench type, RS232/USB, Data logger pH METER

Model : BPH-231

- * Professional bench type meter with large LCD display with green color backlight, easy reading.
- * pH and mV (ORP), pH : 0 to 14.00 pH, ORP : ± 1999 mV.
- * pH measurement can select ATC or manual Temp. adjustment.
- * High input impedance.
- * Auto calibration for pH 7, pH 4 and pH 10 or other value.
- * Real time data logger (record year, month, date, hour, minute, second), 16,000 data logger.
- * Wide sampling time adjustment.
- * Auto data logger, manual data logger.
- * RS232/USB computer interface.
- * Data hold, Record (Max., Min.).
- * It can default auto power off or manual power off.
- * Optional pH electrodes, PE-03, PE-11, PE-01, PE-02, PE-08, PE-06HDA.
- * ORP electrode, ORP-14.
- * Optional ATC Temp. probe/TP-07, optional ORP electrode/ORP-14.
- * DC 1.5V (UM-3/AA) x 8 PCs or DC 9V adapter in.



PE-03
PE-11
PE-01
PE-02
PE-08
PE-06HDA

pH electrode
(optional)



Optional
Pt Conductivity
probe

Pt Conductivity probe

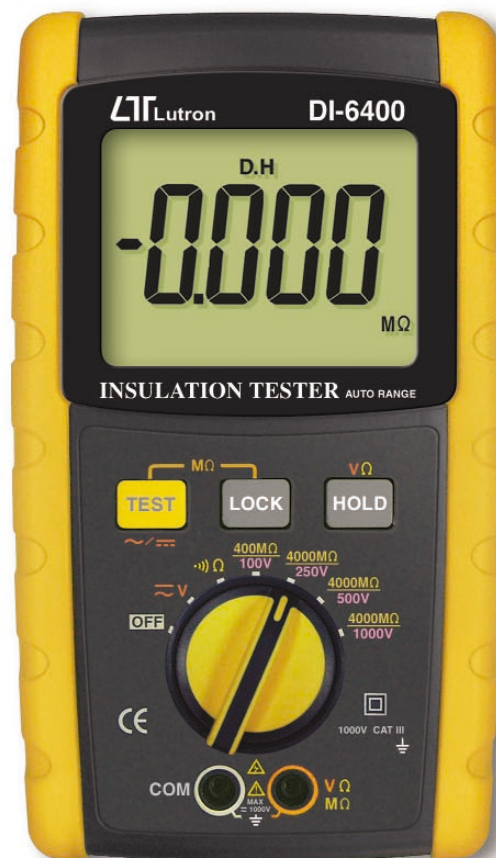
Model : CDPB-04

- * Optional Pt glass conductivity probe for BCT-4308, it can replace the standard conductivity probe (carbon rode probe), high performance for the low conductivity (pure water) measurement.



**0.1 W/1 W
WATT/Leakage METER
Model : DW-6160**

- * Measurement :
WATT (AC) : 2500 W x 0.1 W/1 W.
Leakage current (AC) : 80.00 mA x 0.01 mA.
ACV : 600.0 V x 0.01 V/0.1 V.
ACA : 10.00 A x 0.001 A/0.01 A.
DCV : 600.0 V x 0.01 V/0.1 V.
ohm : 20.00 K ohm x 0.001 K ohm/0.01 K ohm.
- * Low Watt measurement :
1.0 to 999.9 Watt x 0.1 Watt.
- * True Power and wide range :
0 to 2500 Watt x 0.1 W/1 Watt.
- * Leakage current (AC mA) detection.
- * Auto range.
- * Continuity beeper.
- * Large LCD , dual value display.
- * Memory Record (Max., Min.).
- * Data Hold.
- * RS232/USB computer interface.
- * Power : DC 1.5V (UM-3/AA) x 8 PCs
or DC 9V adapter in.
- * Optional USB cable, USB-01.
- * Optional data acquisition softwares,
SW-U801-WIN, SW-E802.



**INSULATION TESTER, + DMM
Model : DI-6400**

- * Auto-range and multi-function.
- * Insulation measurement ranges :
1. 4/40/400/4000 M ohm, auto range (250 V,
500 V, 1000 V).
2. 4/40/400 M ohm, auto range (100 V).
- * Built-in the ACV & DCV & OHMS function :
DCV (600.0 V), ACV (600.0 V),
OHM (400.0 ohm, 4,000 ohm, auto range).
- * CAT III 1000V.
- * Automatic zero adjust & automatic circuit
discharge.
- * Lock & Test functions, safety and easy
operation.
- * Precision resistance measurement with auto-
range, useful for measuring low resistance
value such as motor windings, relay coils etc.
- * A continuity beeper is equipped in OHM range.
- * Jumbo LCD display allows clear read-out.



- * LSI-circuit provides high reliability and
durability.
- * Built-in over-input and low battery
indication.
- * Battery operating easily to carry with
user.
- * Overload protection for each range.
- * Durable & portable housing case with
the front rubber protection cover.
- * Heavy duty test leads with the
alligators.
- * RS-232/USB computer interface.
- * Powered by DC 1.5 V (UM-3/AA) X 8
batteries.
- * Optional USB cable, USB-01.
- * Optional data acquisition softwares,
SW-U801-WIN, SW-E802.

10 Amp Micro-Ohm meter

SERIES



10 Ampere max. test current

Micro-Ohm METER

Model : MO-2014

- * Measurement ranges :
60000 $\mu\Omega$, 600 m Ω , 6000 m Ω , 60000 m Ω ,
600 Ω , 6000 Ω .
- * Test current :
10 A, 1 A, 100 mA, 10 mA, 1 mA, 100 μ A.
- * 4 wires with 2 Kelvin clips is included.
- * Hi / Lo limit setting.
- * Hold function.
- * Backlight function easy readout.
- * Built-in over-input and low battery indications.
- * RS232 / USB computer interface.
- * Power supply :
 1. 600 m Ω , 6 Ω , 60 Ω , 600 Ω , 6 K Ω ranges :
DC 1.5V (UM-3/AA) battery x 8 PCs.
 2. 60000 $\mu\Omega$ range : DCV power supply via
external AC/DC adapter, 90-260ACV/DC
adapter is the standard accessory.
- * Ideal for measuring the resistance of components precisely.
- * Ideal for testing protective conductors, lightning conductors and welded points.
- * Good / Fail set-function for input quality control.
- * Especial " CALCULATE " function to measure cable/wire length.
- * Optional USB cable, USB-01.
- * Optional data acquisition software, SW-U801-WIN.
- * Optional Excel data acquisition software, SW-E802.



3 phase power analyzer SD card Data recorder



Clamp Probe, A1, A2, A3
CP-1200



SD Card real time data recorder 3 PHASE POWER ANALYZER Model : DW-6092

- * Analysis for 3 phase multi-power system, 1P/2W, 1P/3W, 3P/3W, 3P/4W
- * Voltage & Current are the True RMS value.
- * True Power (KW, MW, GW).
- * Apparent Power (KVA, MVA, GVA).
- * Reactive Power (KVAR, MVAR, GVAR).
- * Watt-Hour (WH, SH, QH, PFH).
- * Power Factor (PF), Phase Angle (θ).
- * Voltage range : 10 to 600 ACV.
- * Current range: 0.2 to 1200 ACA.
- * Programmable CT ratio (1 to 600) and PT ratio (1 to 1000).
- * ACV input impedance is 10 Mega ohms.
- * Safety Standard : IEC 1010, CAT III 600V.
- * Built-in clock and Calendar, real time data record with SD memory card , sampling time can be set from 2 to 7200 seconds.

Just slot SD card into the computer, all the measured values with the time information (year, month, data, hour, minute, second) can be downloaded to the Excel directly, then user can make the further data analysis by themselves.

- * Powered by DC 1.5 V (UM-3/AA) x 8 PCs batteries (Alkaline type) or DC 9V adapter.
- * Complete set with 4 PCs Test Leads, 4 PCs Alligator clips, 3 PCs Clamp Probe, AC to DC 9V adapter, 2 G SD memory card and Carrying bag.
- * RS232/USB computer interface.
- * Optional USB cable, USB-01.
- * Optional RS232 cable, UPCB-02.
- * Optional data acquisition softwares, SW-U811, SW-E802.

3 phase power analyzer SD card Data recorder



Clamp Probe, A1, A2, A3
CP-1201



SD Card real time data recorder, complete set

3 PHASE POWER ANALYZER

Model : DW-6093

- * Analysis for 3 phase multi-power system, 1P/2W, 1P/3W, 3P/3W, 3P/4W.
- * 3 current probes (CP-1201) are included, if change the current probes, the calibration procedures are not necessary.
- * Current probe input signal/ranges with selection :
Input signal (ACV) :
200 mV/300 mV/500 mV/1 V/2 V/3 V.
Ranges (ACA) :
20 A/200 A/2000 A/30 A/300 A/3000 A /6000 A.
- * Meter can cooperate with other universal current probes.
- * Complete set with 4 PCs Test Leads, 4 PCs Alligator clips, 3 PCs Clamp Probe (CP-1201), AC to DC 9V adapter, 2 G SD memory card and Carrying bag.
- * Voltage & Current are the True RMS value.
- * True Power (KW, MW, GW).
- * Apparent Power (KVA, MVA, GVA).
- * Reactive Power (KVAR, MVAR, GVAR).
- * Watt-Hour (WH, SH, QH, PFH).
- * Power Factor (PF), Phase Angle (Degree).
- * Voltage range : 10 to 600 ACV.
- * Current range : 0.2 to 1200 ACA, CP-1201.
- * Programmable CT ratio (1 to 600) and PT ratio (1 to 1000).

- * ACV input impedance is 10 Mega ohms.
- * Safety Standard : IEC 1010, CAT III 600V.
- * Built-in clock and Calendar, real time data record with SD memory card , sampling time can be set from 2 to 7200 seconds. Just slot the SD card into the computer, all the measured values with the time information (year, month, data, hour, minute, second) can be downloaded to the Excel directly, then user can make the further data analysis by themselves.
- * Powered by AA (UM-3) DC 1.5 V x 8 PCs batteries (Alkaline type) or DC 9V adapter.
- * Computer data output, can cooperate with optional USB Cable/USB-01, RS232 cable/U PCB-02 and Data Acquisition software, SW-U811, SW-E802.
- * Optional current probes : CP-1201, CP-200, CP-2000, CP-2011, CP-3000, CP-3001, CP-6001, CPF-3002 detailed specification, refer to page 59-61, 63.
- * User can order the meter only (without the current probes) with the special request if intend to cooperate their own current probes.
- * Patented.

3 phase power analyzer with harmonic measurement SD card data recorder



Clamp Probe, A1, A2, A3
CP-1201



SD Card real time data recorder 3 PHASE POWER ANALYZER, with harmonic measurement

Model : DW-6095

- * Analysis for 3 phase multi-power system, 1P/2W, 1P/3W, 3P/3W, 3P/4W.
- * 3 current probes (CP-1201) are included, if change the current probes, the calibration procedures are not necessary.
- * Current probe input signal/ranges with selection :
Input signal (ACV) :
200 mV/300 mV/500 mV/1 V/2 V/3 V.
Ranges (ACA) :
20 A/200 A/2000 A/30 A/300 A/ 3000 A /6000A.
- * Meter can cooperate the universal current probes.
- * Complete set with 4 PCs Test Leads, 4 PCs Alligator clips, 3 PCs Clamp Probe (CP 1201), AC to DC 9V adapter, 2 G SD memory card and Carrying bag.
- * Measurement :
V (phase-to-phase), V (phase-to-ground)
A (phase-to-ground)
KW / KVA / KVAR / PF (phase)
KW / KVA / KVAR / PF (system)
KWH / KVAH / KVARH / PFH (system)
Phase angle
- * Harmonics display (1-50th order).
- * Simultaneous display of Harmonics and Wave form.
- * Display of Wave form with Peak Values.
- * Analysis of Total Harmonic Distortion (THD).
- * Graphic Phase diagram with 3-Phase system parameters.
- * 3 phase Voltage or Current Unbalanced

- Ratio (VUR, AUR) and Unbalanced Factor.
- * Calculated Unbalanced Current through Neutral Line (An).
- * Capture Transient events (including Dip, Swell and Outage) with programmable threshold (%).
- * Programmable CT ratio (1 to 600) and PT ratio (1 to 1000).
- * ACV input impedance is 10 Mega ohms.
- * Safety Standard : IEC 1010, CAT III 600V.
- * Built-in clock and Calendar, real time data record with SD memory card , sampling time can be set from 2 to 7200 seconds. Just slot the SD card into the computer, all the measured values with the time information (year, month, data, hour, minute, second) can be downloaded to the Excel directly, then user can make the further data analysis by themselves.
- * Powered by AA (UM-3) DC 1.5 V X 8 batteries (Alkaline type) or DC 9V adapter.
- * Computer data output, can cooperate with optional USB Cable/USB-01, RS232 cable/UPCB-02 and Data Acquisition software, SW-U811, SW-E802.
- * Optional current probes : CP-1201, CP-200, CP-2000, CP-2011, CP-3000, CP-3001, CP-6001, CPF-3002 detailed specification, refer to page 59-61, 63.
- * User can order the meter only (without the current probes) with the special request if intend to cooperate their own current probes.
- * Patented.

Safety application, far away measurement Wi-Fi APP (Android, IOS) 3 phase power analyzer



3 phase POWER ANALYZER
DW-6095, DW-6093



DIRECT Wi-Fi CONVERTER
RSW-914



Tablet, Smartphone

WHOLE SYSTEM

Model : DW-6093 (DW-6095) + RSW-914

* If DW-6093 (refer page 56) or DW-6095 (refer page 57) connect with RSW-914, then whole system will be used conveniently for safety application. By connecting SSID and running APP, mobile devices, like smart phone or tablet, can read measuring data, execute the data logger or send warning messages with high/low alert setup. Once your mobile device is connected via WiFi successfully, user can read the measurement value in far way area. Thus, it is the safest power analyzer in the world.

* APP (Android) and APP (IOS) are available.

WiFi CONVERTER

Model : RSW-914

* When LUTRON meter (DW-6093, DW-6095) with RS232 interface is connected to RSW-914, the meter can share data via WiFi technology. Therefore, personal devices, like desktop, laptop, smart phone, tablet... with WiFi function can be read the measuring data via WiFi. For example if factory installs Power analyzer DW-6095 with RSW-914, then operator can monitor the power information (measuring value) via WiFi network with safety.

* Allow 1 meter and max. 12 channels (the total ch. no.) input.

* Easy operation, no setting requirement in the RSW-914 are required, just connecting the RSW-914 to RS232 meter and power ON only.

* Three input/output terminals :

1. DC 9V power input.
2. DC 9V power output (power supply for the connecting RS232 meter).
3. Meter RS232 input (photo isolate RS232 type).

* Accessories included :

1. ACV to DC 9V POWER adapter.
2. RS232 interface cable, UPCB-03 x 1 PC.
- * APP (Android) and APP (IOS) are available.

* After smart phone or tablet install the APP, following to select the WiFi SSID of RSW-914 then user can monitor the measurement value, log, High/Low alarm or send the warning message out via SMS or Email.

2000 Amp current probe

Model : CP-2000

- * Range : 20 A/200 A/2000 A.
- * Output sensitivity : 100 mV/A, 10 mV/A, 1 mV/A.
- * Output voltage : 2 ACV (20 A, 200 A, 2000 A).
- * Max. conductor size : 51 mm (2.0 inch) Dia.
- * Operation frequency ; 50 Hz/60 Hz.
- * Optional current probes for DW-6093, DW-6095.
- * When changing the new probe, the calibration procedures are not necessary.
- * Output cable : 4 meter wire, use the banana plugs, durable and safety.
- * Power supply is from the meter, battery is not necessary.



1200 Amp current probe

Model : CP-1201

- * Range : 20 A/200 A/1200 A.
- * Output sensitivity : 10 mV/A, 1 mV/A, 0.1 mV/A.
- * Output voltage : 200 ACmV (20 A, 200 A), 120 ACmV (1200 A).
- * Max. conductor size : 48 mm (1.9 inch) Dia.
- * Operation frequency : 50 Hz/60 Hz.
- * Standard current probes (included) for DW-6093, DW-6095.
- * Optional current probes for DW-6093, DW-6095.
- * When changing the new probe, the calibration procedures are not necessary.
- * Output cable : 4 meter wire, use the banana plugs, durable and safety.
- * Power supply is from the meter, battery is not necessary.



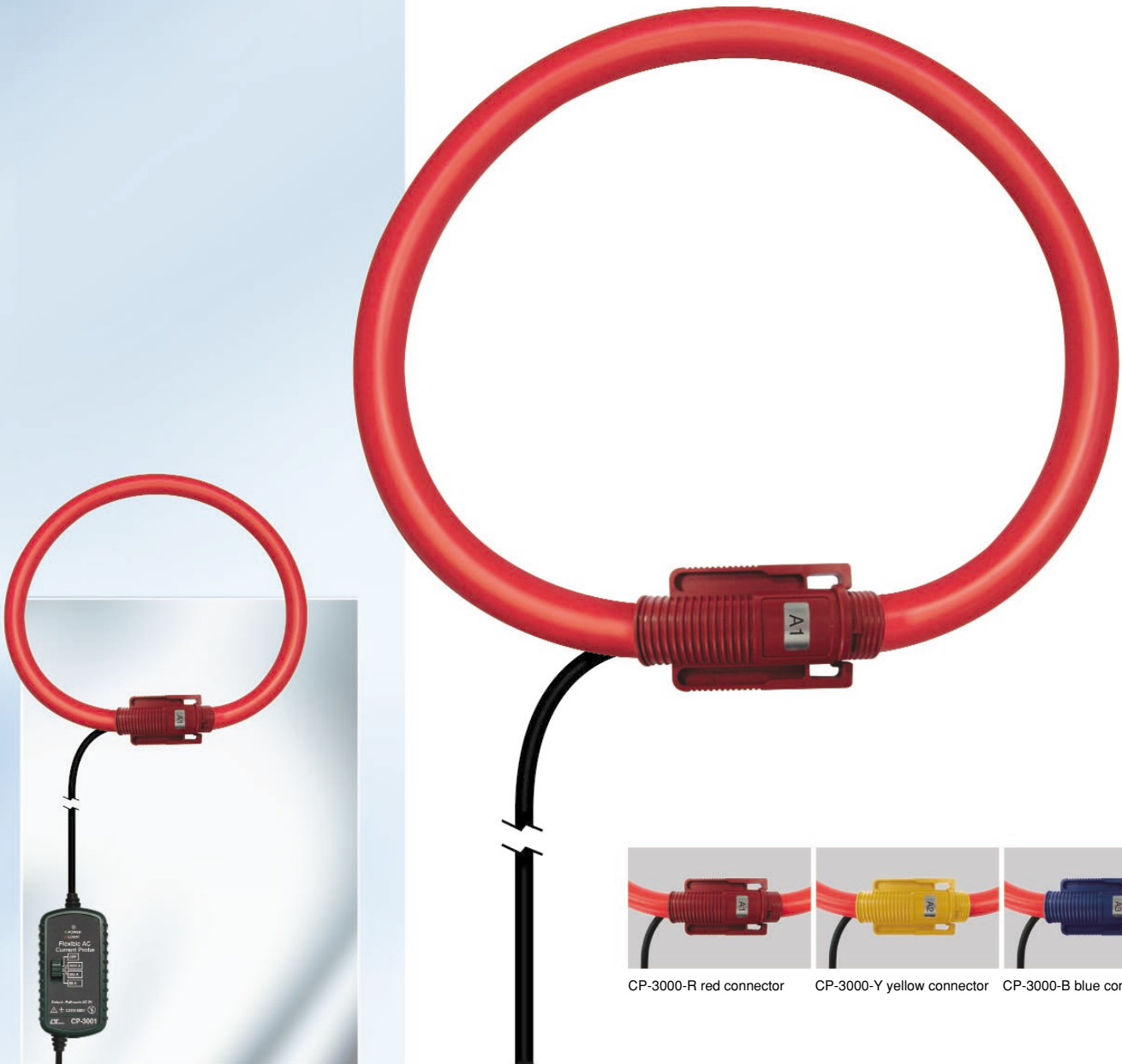
200 Amp current probe

Model : CP-200

- * Range : 20 A/200 A.
- * Output sensitivity : 10 mV/A, 1 mV/A.
- * Output voltage : 200 ACmV (20 A, 200 A).
- * Max. conductor size : 19 mm (0.75 inch) Dia.
- * Operation frequency : 50 Hz/60 Hz.
- * Optional current probes for DW-6093, DW-6095.
- * When changing the new probe, the calibration procedures are not necessary.
- * Output cable : 4 meter wire, use the banana plugs, durable and safety.
- * Power supply is from the meter, battery is not necessary.



3,000 Amp SERIES Flexible current probe



CP-3000-R red connector CP-3000-Y yellow connector CP-3000-B blue connector

Flexible 3000 Amp current probe

Model : CP-3001-R (red connector)
Model : CP-3001-Y (yellow connector)
Model : CP-3001-B (blue connector)

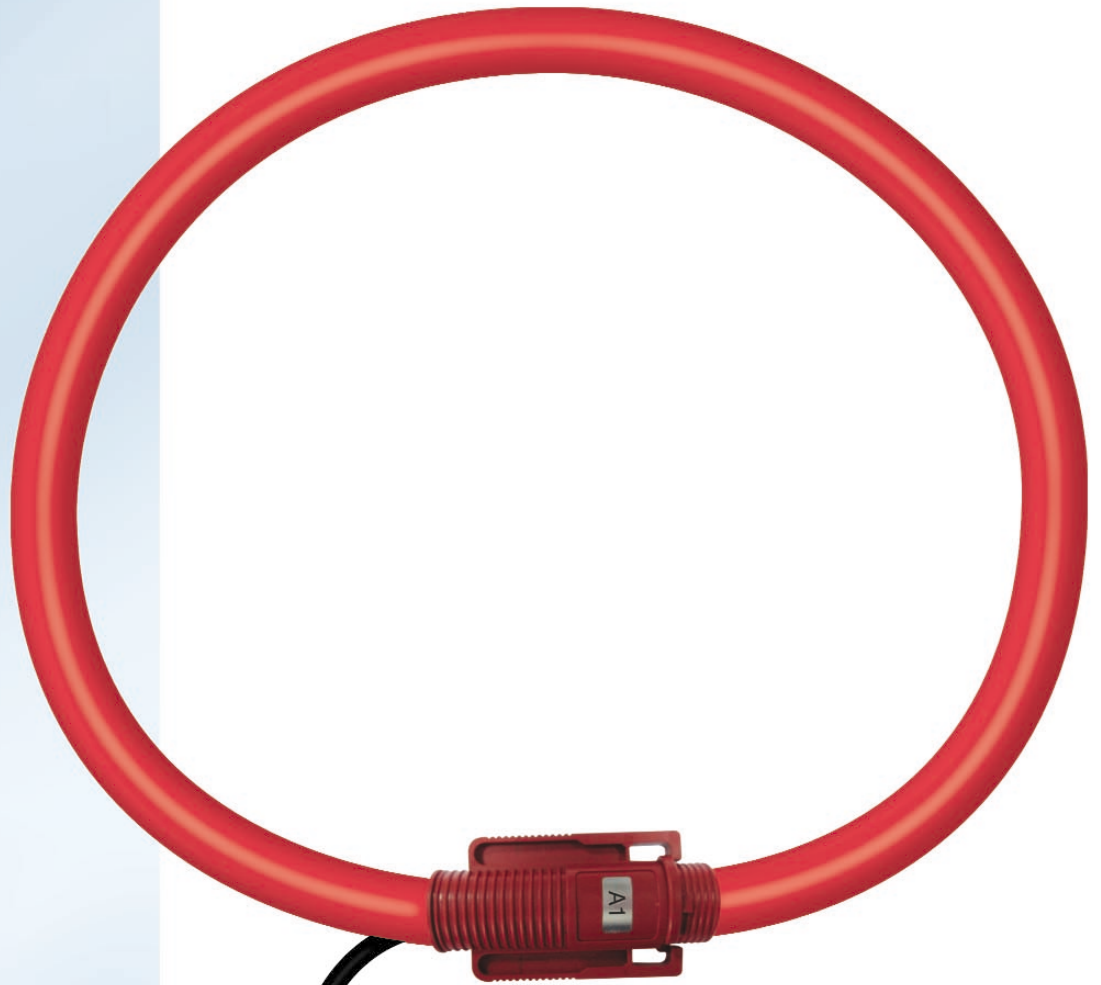
- * Range : 30 A/300 A/3000 A.
- * Output sensitivity :
100 mV/A, 10 mV/A, 1 mV/A.
- * Output voltage :
3 ACV (30 A, 300 A, 3000 A).
- * Flexible probe length : 600 mm (23.6 inch).
Flexible probe diameter : 15 mm.
- * When changing the new probe, the calibration procedures are not necessary to be executed.
- * Output cable : 2 cables (4 meters in length), use the banana plugs, durable and safety.
- * Power supply : DC 1.5V battery (UM-3/AA) x 2 PCs or DC 9V adapter in.
AC to DC 9V adapter is optional.
- * CP-3001 can cooperate any kind DMM (ACmV meters), if those meters are built-in the ACV mV measurement range to be used as the AC 3000 Amps (max.) current meter.

Flexible 3000 Amp current probe

Model : CP-3000-R (red connector)
Model : CP-3000-Y (yellow connector)
Model : CP-3000-B (blue connector)

- * Range : 30 A/300 A/3000 A.
- * Output sensitivity :
100 mV/A, 10 mV/A, 1 mV/A.
- * Output voltage :
3 ACV (30 A, 300 A, 3000 A).
- * Flexible probe length : 600 mm (23.6 inch).
Flexible probe diameter : 15 mm.
- * Optional current probes for DW-6093, DW-6095.
- * When changing the new probe, the calibration procedures are not necessary to be executed.
- * Output cable : 4 meter wire, use the banana plugs, durable and safety.
- * Power supply is from the meter (DW-6093, DW-6095), battery is not necessary.
- * CP-3000-R, CP-3000-Y, CP-3000-B :
Function is same with one another, but for identification purpose, the connector color is different.

6,000 Amp **Flexible current probe** **SERIES**



CP-6001-R red connector CP-6001-Y yellow connector CP-6001-B blue connector



Flexible 6000 Amp current probe

Model : CP-6001-R (red connector)

Model : CP-6001-Y (yellow connector)

Model : CP-6001-B (blue connector)

* Range : 60 A/600 A/6000 A.

* Output voltage :

3 ACV (60 A, 600 A, 6000 A) at full scale.

* Flexible probe length : 900 mm (35.4 inch).

Flexible probe diameter : 15 mm.

* Optional current probes for DW-6093, DW-6095.

* When changing the new probe, the calibration procedures are not necessary to be executed.

* Output cable : 2 cables (4 meters in length), use the banana plugs, durable and safety.

* Power supply : DC 1.5V battery (UM-3/AA) x 2 PCs or DC 9V adapter in.

AC to DC 9V adapter is optional.

* CP-6001 can cooperate with any kinds of multimeters (ACmV meters) which are built-in the ACV mV measurement range, then can be used as the AC 6000 Amps (max.) current meter.



FLEXIBLE CLAMP METER

Model : CMF-3200

- * Flexible clamp meter, complete set with meter.
- * Slim flexible clamp probe, easy and convenient to measure the ACA up to 3000A (auto range).
- * The meter also has more other features available for the ACV, DCV, Ohm, capacity, diode, continuity measurement.
- * Flexible probe length : 280 mm (11 inch).
- * Flexible probe diameter : 8 mm.
- * AC 3000 A/ 600 A, auto range.
- * V : ACV, DCV measurement automatically.
- * Ω : Ohm, Diode, Continuity, Capacitance measurement automatically.
- * Push button Key : Power, Hold, Select.
- * LCD Display is 6000 counts.
- * Auto power off.
- * CAT III 1000V.
- * Power supply : DC 1.5V battery (AAA) x 2 PCs.

Flexible AC power meter
Flexible current probe



Flexible 3000 Amp current probe

Model : CPF-3002

- * Ranges : 30 A/300 A/3000 A.
- * Output sensitivity : 100 mV/A, 10 mV/A, 1 mV/A.
- * Output voltage : 3 ACV (30 A, 300 A, 3000 A).
- * Flexible probe length : 280 mm (11 inch).
- * Flexible probe diameter : 8 mm.
- * Push button Key : Power, Range.
- * When changing the new probe, the calibration procedures are not necessary to be executed.
- * CAT III 1000V
- * Power supply : DC 1.5V battery (AAA) x 2 PCs.
- * CMF-3002 can cooperate any kind DMM (ACmV Meter), if those meters are built-in the ACV mV measurement range to be used as the AC 3000 Amps (max.) current meter.



True RMS, 3000 A

FLEXIBLE AC POWER METER

Model : CWF-3300

- * True Power 1800 (KW) measurement.
- * Power Factor (PF) measurement.
- * Apparent Power 1800 (KVA) measurement.
- * Reactive Power 1800 (KVAR) measurement.
- * ACA, ACV, Continuity, ohms, Watt, PF.
- * AC Current (600A, 3000A), auto range .
- * Voltage range : 600 ACV.
- * Voltage and Current measurement are the True RMS value.
- * Heavy duty, CATIII-1000V, 6,000 counts.
- * Flexible Cable length : 280 mm (11 inch).
- * Flexible Cable diameter : 8 mm .
- * Size : 290 x 135 x 27.8 mm.
- * DC 1.5V battery (UM-4, AAA) x 2.

Multimeter DMM + LCR + USB/RS232 Smart DMM

SERIES



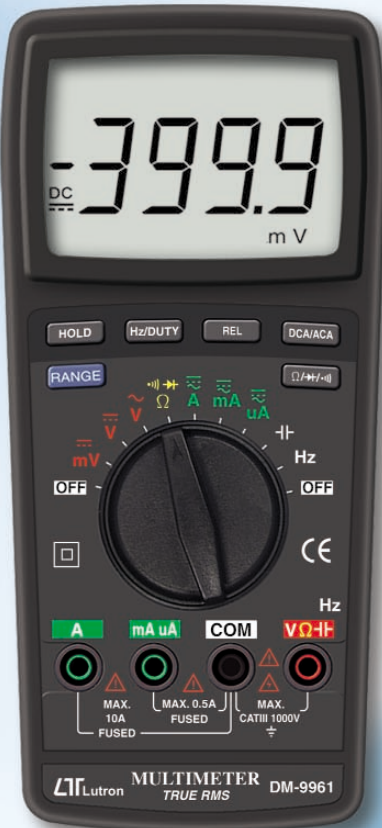
CAT III-1000V AUTO RANGE DMM, bar graph

Model : DM-9960

- * CAT III-1000V, bar graph, super large LCD.
- * 4000 counts, auto/manual range.
- * ACV, ACA, DCV, DCA, ohms, continuity buzzer.
- * Hz, Capacitance, Temperature, diode.
- * Peak, Data hold, Relative, Max//Min.
- * Range Hold, RS-232 interface.
- * 10 Amp. current with fuse protection.



Holster, HS-03



true RMS, auto range CAT III 1000V TRUE RMS DMM

Model : DM-9961

- * CAT III-1000V, 4000 counts, auto/manual range.
- * Large LCD, digit height 23 mm.
- * ACV, ACA, DCV, DCA, ohms, continuity buzzer.
- * Hz/Duty cycle, Capacitance, diode.
- * Data hold, Relative, range hold.
- * 10 Amp. current with fuse protection.



MULTIMETER, smart

Model : DM-9950

- * Smart operation, 5 intelligent functions :
V : Smart ACV/DCV Automatically.
Ω : Resistance, Diode, Continuity, Capacitance. Automatically.
uA : Smart ACA/ DCA Automatically.
mA : Smart ACA/DCA Automatically.
10A : Smart ACA/DCA.
- * Function keys : Select, Hz, Max/Min, Range, Hold.
- * Auto power off.
- * CAT III 1000V, CAT IV 600V.
- * Size : 192 mm x 90 mm x 41 mm.
- * Power : DC 9V battery (006 P).
- * Optional holster, HS-03.

Multimeter DMM + LCR + SD card recorder SERIES



MULTIMETER, + LCR

Model : DM-9862

* Same measurement function as DM-9962SD but without the SD card data recorder

SD card real time data recorder MULTIMETER, + LCR, 6,000 counts

Model : DM-9962SD

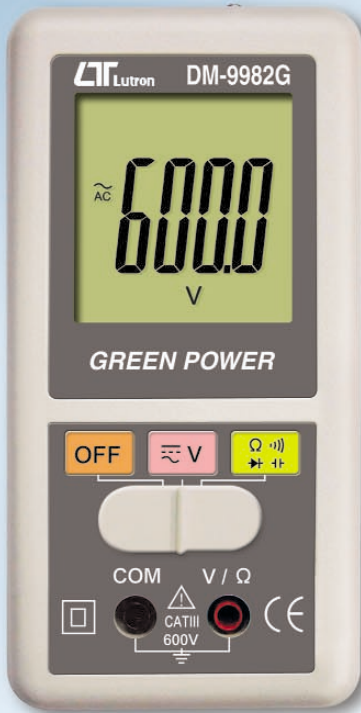
- * Real time data logger, save the data into the micro SD memory card and can be downloaded to the Excel, extra software is no need.
- * Real time data logger, built-in clock (year/ month/date/hour minute/second), sample time 2 to 3,600 seconds.
- * CAT III 1000V.
- * True RMS, auto/manual range.
- * Large LCD 6,000 counts.
- * Main functions :
ACA, ACV, DCA, DCV, ohm, continuity buzzer, diode, capacitance, Inductance, Hz, temperature.
- * μ A, mA, 10 Amp current measurement with fuse protection.
- * Data hold, relative, Max., Min..
- * Auto power off.
- * RS232/USB computer interface.
- * SD memory card capacity :
1 GB to 32 GB, micro SD card.
- * Powered by DC 9V battery (006P, Alkaline type) or DC 9V adapter. SD card data record function is available when the power supply is to use the DC 9V adapter.
- * Optional holster, HS-03.
- * Optional USB cable, USB-11.
- * Optional data acquisition softwares,
SW-U801-WIN, SW-E802.



Holster, HS-03



Smart



**Green power, hybrid power
SMART MULTIMETER**

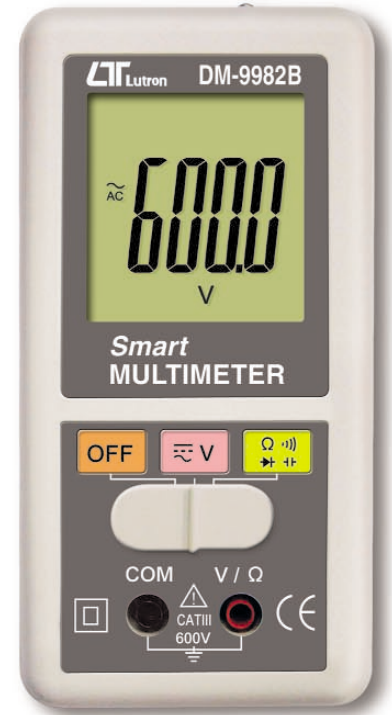
Model : DM-9982G

- * Power supply from generator (battery is no need) or battery power.
- * Smart operation, 2 intelligent functions : V, Ω.
- * V : ACV, DCV measurement automatically.
- * Ω : Ohm, Diode, Continuity, Cap. automatically.
- * Large LCD display, 6,000 counts.
- * Auto power off.
- * DIY version, easy operation.
- * Size : 151 x 78 x 43 mm.
- * Large LCD display, 6,000 counts.
- * CAT III-600V, Auto power off.
- * Optional soft carrying case, CA-52A.
- * Patented.

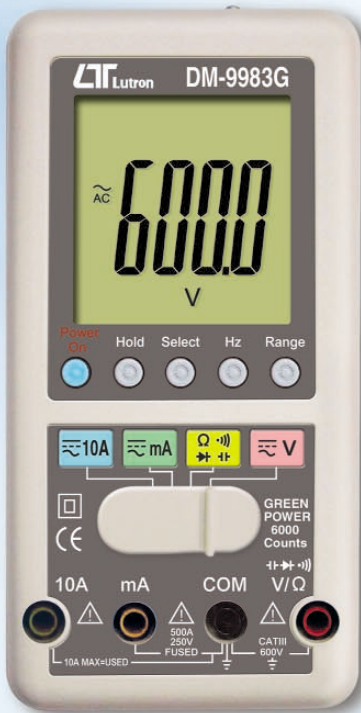
Smart

**SMART MULTIMETER
Model : DM-9982B**

- * Smart operation, 2 intelligent functions : V, Ω .
- * V : ACV, DCV measurement automatically.
- * Ω : Ohm, Diode, Continuity, Capacitance automatically.
- * Large LCD display, 6,000 counts.
- * CAT III 600V.
- * Auto power off.
- * DIY version, easy operation.
- * Power : DC 9V battery (006 P).
- * Size : 151 x 78 x 43 mm.
- * Optional soft carrying case, CA-52A.



Smart



**Green power, hybrid power
SMART MULTIMETER**

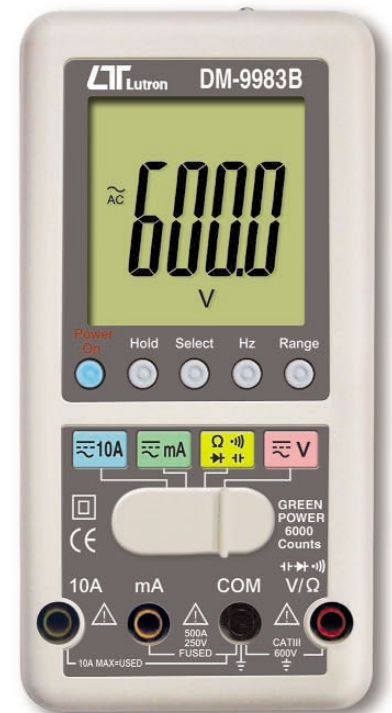
Model : DM-9983G

- * Power supply from generator (battery is no need) or battery power.
- * Smart operation, 3 intelligent functions : V, Ω , A.
- * V : ACV, DCV measurement automatically.
- * Ω : Ohm, Diode, Continuity, Cap. automatically.
- * A : DCA, ACA, 10A/60mA/600mA.
- * Function Keys : Hold / Select / Hz / Range.
- * Large LCD display, 6,000 counts.
- * CAT III-600V, Auto power off.
- * Size : 151 x 78 x 43 mm.
- * Patented.

Smart

**SMART MULTIMETER
Model : DM-9983B**

- * Smart operation, 3 intelligent functions : V, Ω, A.
- * V : ACV, DCV measurement automatically.
- * Ω : Ohm, Diode, Continuity, Capacitance automatically.
- * A : DCA, ACA, 10A/60mA/600mA.
- * Function Keys : Hold / Select / Hz / Range.
- * Large LCD display, 6,000 counts.
- * CAT III 600V, Auto power off.
- * Power : DC 9V battery (006 P).
- * Size : 151 x 78 x 43 mm.
- * Optional soft carrying case, CA-52A.





Smart, 1,000 A, economical
DCA/ACA CLAMP METER

Model : CM-6146

- * V : Smart ACV/DCV Automatically.
- * Ω : Resistance, Diode, Continuity, Capacitance. Automatically.
- * 600A : Smart DCA/ACA.
- * 1000A : Smart DCA/ACA.
- * Function keys : Select, Zero, Hz, Range, Hold.
- * CAT III 1000V, CAT IV 600V.
- * 32 mm measuring conductor size.
- * Auto power off.



Smart, 1,000 A, + max. hold, + Temp.
DCA/ACA CLAMP METER

Model : CM-6155C

- * V : Smart ACV/DCV Automatically.
- * Ω : Resistance, Diode, Continuity, Capacitance. Automatically.
- * 600A : Smart DCA/ACA.
- * 1000A : Smart DCA/ACA.
- * Temp. (type K) : -20 °C to 750 °C.
- * Function keys : Select, Zero, Hz, Max/Min, Range, Hold.
- * CAT III 1000V, CAT IV 600V.
- * Max. hold (Max., Min. measuring value).
- * 32 mm measuring conductor size.
- * Auto power off.
- * Type K Temp. probes, TP-01, TP-02A, TP-03, TP-04, TP-05 are optional.

Model : CM-6155F

- * Same function as CM-6155C, but Temp. unit is °F instead of °C.
- * Temp. (type K) : -4 °F to 1382 °F.



Smart, 1,000 A, + max. hold
DCA/ACA CLAMP METER

Model : CM-6156

- * V : Smart ACV/DCV Automatically.
- * Ω : Resistance, Diode, Continuity, Capacitance. Automatically.
- * 600A : Smart DCA/ACA.
- * 1000A : Smart DCA/ACA.
- * Function keys : Select, Zero, Hz, Max/Min, Range, Hold.
- * CAT III 1000V, CAT IV 600V.
- * Max. hold (Max., Min. measuring value)
- * 32 mm measuring conductor size.
- * Auto power off.



Smart, 2,000 A, + max. hold
DCA/ACA CLAMP METER

Model : CM-6158

- * V : Smart ACV/DCV Automatically.
- * Ω : Resistance, Diode, Continuity, Capacitance. Automatically.
- * 600A : Smart DCA/ACA.
- * 2000A : Smart DCA/ACA.
- * Function keys : Select, Zero, Hz, Max/Min, Range, Hold.
- * CAT III 1000V, CAT IV 600V.
- * Max. hold (Max., Min. measuring value).
- * 48 mm measuring conductor size.
- * Auto power off.

AC / DC Clamp ACA Leakage Fork Current Tester



2000 A DCA/ACA CLAMP METER + DMM, True rms

Model : CM-9930

- * Heavy duty, CATIII-1000V.
- * 4,000 counts.
- * Auto range, Panel water resistance.
- * ACA(2000A, 400A), DCA(2000A, 400A), DCV, ACV, Capacitance, Frequency, Duty cycle, Relative, Continuity, ohms.
- * 51 mm measuring conductor size.
- * 400 μ A - 400 mA small direct current input.
- * Size : 255 x 73 x 38 mm.
- * Model, CM-9930R is with RS232 data output.

Smart



ACA LEAKAGE TESTER, auto range

Model : DL-9954

- * High precision mA leakage measuring.
- * ACA 40 mA x 0.01 mA
- * ACA 400 mA x 0.1 mA
- * ACA 40 A, 120 A.
- * Ohms, Diode, Continuity beeper, hold.
- * AC voltage, DC voltage.
- * LCD display.
- * DC 1.5V battery (UM-3, AA) x 2.



SMART CLAMP METER

Model : CM-9941

- * Heavy duty, CAT III 600V.
- * Smart operation, built-in 3 intelligent functions : A, V, Ω , Hz
- * V " function can choose the ACV, DCV automatically with auto range.
- * Ω " function can choose the Resistance, Diode, Continuity beeper, Capacitance automatically with auto range.
- * A " function can measure ACA (600A, 60A) with auto range.
- * 6,000 counts display.
- * 30 mm measuring conductor size.
- * Size : 178 x 64 x 33 mm.



Mini DCA/ACA CLAMP METER

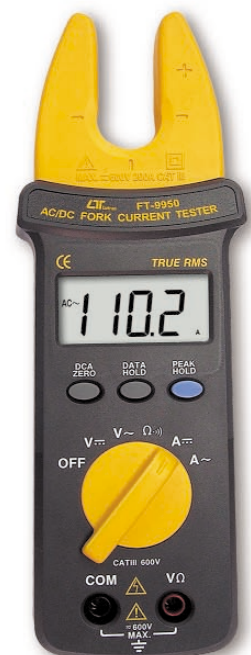
Model : CM-9940

- * Heavy duty, CATIII-600V.
- * 4,000 counts.
- * Auto range, Panel water resistance.
- * ACA(600A, 400 A), DCA (600A, 400A), DCV, ACV, Hz, Continuity, Diode, ohms.
- * 30 mm measuring conductor size.
- * Size : 178 x 64 x 33 mm.

AC/DC FORK CURRENT TESTER

Model : FT-9950

- * Heavy duty, CATIII-600V.
- * Fork current probe both for ACA and DCA.
- * ACA (200 A x 0.1 A), DCA (200 A x 0.1 A).
- * DCV, ACV, ohms, Continuity beeper.
- * Data hold, Peak hold, DCA zero.
- * Hall effect sensor for current sensing.
- * DC 9V battery (006P).



Clamp power analyzer SD card data recorder



SD card real time data recorder CLAMP POWER ANALYZER

Model : PC-6011SD

- * Real time data logger, save the data into the micro SD memory card and can be downloaded to the Excel, extra software is not need.
- * Real time data logger, built-in clock (year/month/date/hour minute/second), sampling time can be set from 2 to 7200 seconds.
- * Applications :
Power quality analysis for single and balanced three phase systems.
- * True RMS value for voltage and current measurements.
- * True Power (KW, MW, GW).
- * Apparent Power (KVA, MVA, GVA).
- * Reactive Power (KVAR, MVAR, GVAR).
- * Watt-Hour (KWH, KVAH, KVARH).
- * Power Factor (PF), Phase Angle (θ).
- * Voltage range : 10 to 600 ACV.
- * Current range : 10 to 2000 ACA.
- * Harmonics display (1 - 50th order).
- * Display of wave form with peak value.
- * Analysis of total harmonic distortion.
- * Graphic phase diagram with balanced 3-phase system.
- * Capture transient events (including Dip, Swell and Outage) with programmable threshold (%).
- * Programmable PT ratio (1 to 1000).
- * ACV input impedance is 10 Mega ohms.
- * SD memory card capacity :
1 GB to 32 GB, micro SD card.
- * Built-in the " Hard copy " function, it can be saved and converted the Display diagram to the BMP file.
- * Powered by DC 1.5V (UM-3/AA) x 2 PCs batteries (Alkaline type) or DC 9V adapter. SD card data record function is available when the power supply is to use the DC 9V adapter.
- * RS232/USB computer interface.
- * Optional USB cable, USB-01.
- * Optional data acquisition softwares, SW-U801-WIN, SW-E802.



DCA/ACA Clamp meter SD card data recorder



SD card data recorder, true rms DCA/ACA CLAMP METER

Model : CM-6010SD

- * Real time data logger, save the data into the micro SD memory card and can be downloaded to the Excel, extra software is no need.
- * Real time data logger, built-in clock (year/month/date/hour minute/second), sampling time can be set from 2 to 7200 seconds.
- * Measurement functions :
ACA. DCA. ACV, DCV. Resistance, Diode, Continuity, Capacitance, Temp. (optional Temp. probe)
- * ACA range : 0 to 2000 ACA, auto range.
- * DCA range : 0 to 2000 DCA, auto range.
- * ACV range : 0 to 1000 ACV, auto range.
- * DCV range : 0 to 1000 DCV, auto range.
- * Resistance range : 0 to 10 Megohm, auto range.
- * True rms measurement for ACV, ACA.
- * CAT III 1000V, CAT IV 600V.
- * DCA zero button.
- * Hold, REC (Max., Min. measuring value).
- * 50 mm measuring conductor size.
- * ACV, DCV input impedance is 10 Megohm.
- * LCD with backlight.
- * SD memory card capacity :
1 GB to 32 GB, micro SD card.
- * Powered by DC 1.5V (UM-3/AA) x 2 PCs batteries (Alkaline type) or DC 9V adapter.
SD card data record function is available when the power supply is to use the DC 9V adapter.
- * RS232/USB computer interface.
- * Carrying case is included.
- * Optional USB cable, USB-01.
- * Optional data acquisition softwares,
SW-U801-WIN, SW-E802.
- * Optional type K Temp. probe, TP-11.



Car tester SERIES



Holster, HS-03



(optional)

Inductive pick up sensor
Model : IP-09

AUTOMOTIVE TESTER

Model : DM-9131

- * CAT III 1000V.
- * Auto/manual range.
- * Large LCD 6,000 counts.
- * Main functions :
ACA, ACV, DCA, DCV, ohm, continuity buzzer, diode, capacitance, Inductance, hz, temperature, tach., dwell angle, 2000A clamp, point, IR Temp..
- * 10 Amp current range with fuse protection.
- * Data hold, relative, Max., Min.,
- * Auto power off.
- * RS232/USB computer interface.
- * Powered by DC 9V battery (006P, MIN 1604) or DC 9V adapter.
- * Optional inductive pick up sensor IP-09.
- * Optional type K Temp. probe, TP-11.
- * Optional holster, HS-03.
- * Optional USB cable, USB-11.
- * Optional data acquisition softwares, SW-U801-WIN, SW-E802.



Vacuum



VACUUM METER

Model : VC-9200

- * 1125 torr x 1 torr, 1500 mbar x 1 mbar.
- * Units : torr, mm Hg, micron, KPa, Pa, inch Hg, psi.
- * RS232, Hold, Record (Max., Min.).
- * Heavy duty vacuum sensor used for air, oil gas...
- * Application : Automobile, Industrial, laboratory, heating, ventilation, medical hospital...



INDUCTIVE PICK UP SENSOR

Model : IP-09

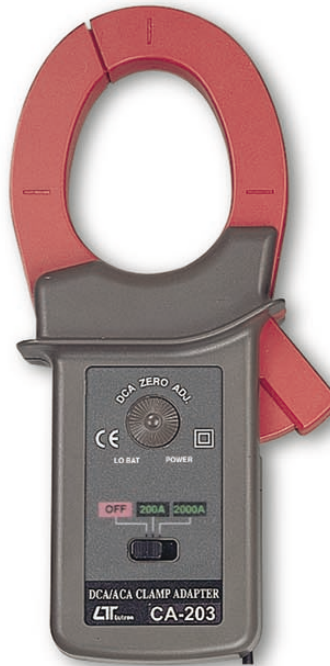
- * Heavy duty type.
- * DM-9131 optional inductive pick up sensor is used to measure the RPM, only need to clip the high tension wire of no. 1 plug.



200 AMP CURRENT SHUNT

Model : LS-04

Optional current shunt for DM-9131.



2000A

DCA/ACA CURRENT ADAPTER

Model : CA-203 (200 A, 2000 A)

Model : CA-502 (200 A, 1000 A)

- * DCA Output : 1 DCmV/1 DCA.
- * ACA Output : 1 ACmV/1 ACA.
- * CA-203 : 210 x 64 x 33 mm
- * CA-502 : 185 x 78 x 30 mm

Engine RPM

GASOLINE TACHOMETER

Model : DT-2237A

- * Non-contact engine RPM measuring.
- * Available the automobile engine, motorcycle engine, generator engine. 4 cycle & 2 cycle select switch, available the automobile engine, motorcycle engine, generator engine...
- * Secondary tach. measuring method, no matter what cylinder is.
- * 10 to 40,000 RPM x 1 RPM, 0.05% accuracy.
- * Memory (Max., Min., Last value).
- * High precision gasoline engine RPM measurement, measurement just clamp the Inductive pick up sensor (IP-09 included) to the high tension wire.



Precision AC Watt meter Precision AC power meter



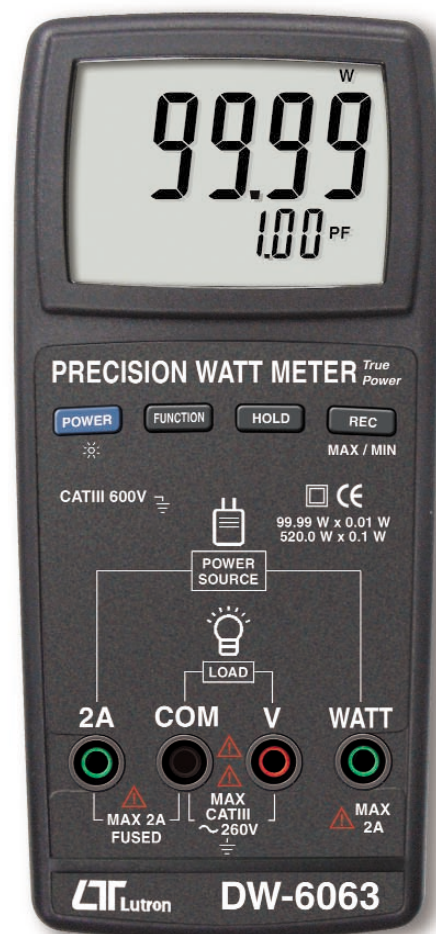
6000 W x 1 W, PF, ACV, ACA, Single phase WATT METER

Model : DW-6163

- * True power measurement.
- * True rms measurement for ACV, ACA.
- * Watt : 0 to 6000 W x 1 W
- * Power factor : 0.01 to 1.00 x 0.01 PF.
- * ACV : 0 to 600 V X 0.1 V.
- * ACA : 0 to 10.00 A x 0.01 A.
- * ACV input impedance : 10 Mega OHM.
- * Data Hold, Record (Max., Min.).
- * Optional Holster, HS-03.
- * RS232/USB Computer interface.
- * Optional data acquisition software, SW-U801-WIN.
- * Optional Excel data acquisition software, SW-E802.
- * Optional USB cable, USB-01.



Holster HS-03

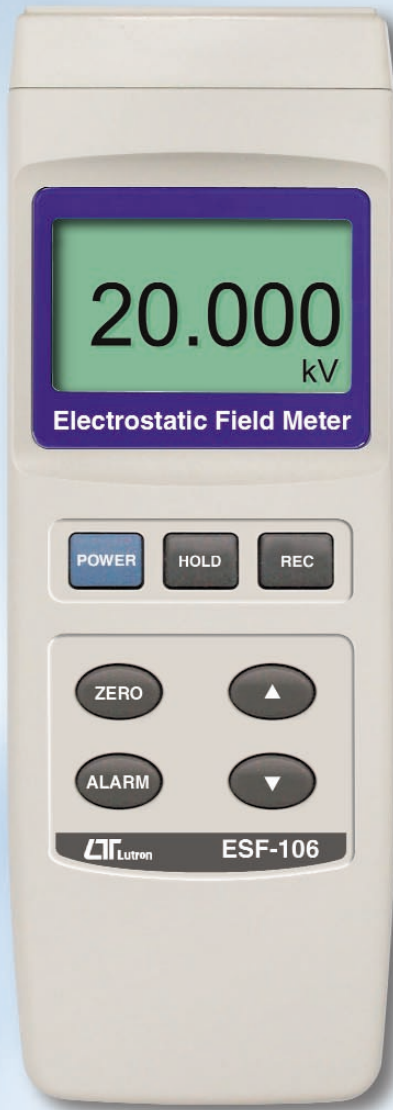


99.99 x 0.01 W, 520.0 x 0.1 W, PF, ACV, ACA, Single phase PRECISION WATT METER

Model : DW-6063

- * 0.01 W resolution, precision Watt meter is special for low power measurement.
- * Designed for the high resolution low power measurement.
- * Watt, Power factor, ACV, ACA.
- * True power (watt) measurement.
- * True rms measurement for ACV, ACA.
- * Auto range for Watt measurement :
Range 1 : 0.00 to 99.99 W x 0.01 W.
Range 2 : 100.0 to 520.0 W x 0.1 W.
- * Power factor : 0.01 to 1.00 x 0.01 PF.
- * ACV : 90.0 to 260.0 V x 0.1 V.
- * ACA : 0 to 2.000 A x 0.001 A.
- * ACV input impedance : 10 Mega OHM.
- * Data Hold, Record (Max., Min.).
- * RS232/USB Computer interface.
- * Optional Holster, HS-03.
- * Optional data acquisition software, SW-U801-WIN.
- * Optional Excel data acquisition software, SW-E802.
- * Optional USB cable, USB-01.

Electrostatic Field meter Precision DC Watt meter



ELECTROSTATIC FIELD METER

Model : ESF-106

- * Measuring ranges : 0.010KV to 20.000KV
-0.010KV to -20.000KV
- * Sampling time : 0.5 sec.
- * High Voltage alarm : 20.000KV.
- * Warning alarm setting.
- * Measuring distance : 2.54 cm (1 inch).
- * Data hold.
- * Peak hold (MAX or MIN).
- * Auto power off.
- * Low Battery indicator.
- * Operation humidity :
Less than 70 % RH, non-condensing.
- * DC 9 V battery (006 P).



Holster HS-03



data logger with 50 mS sampling time

DC WATT METER

Model : DW-6064

- * DC power measurement.
- * DC Watt :
0-60.000 W x 0.001 W .
60.01 W - 600.00 W x 0.01 W .
- * DCV : 0 - 60 V x 0.01 V.
- * DCA : 0 - 2 A x 0.001 A.
2 - 10 A x 0.01 A.
- * DCV input impedance : 10 MΩ.
- * Fast data logger with 50 mS sampling time.
- * Data hold, Record (Max., Min .).
- * LCD with Backlight can be easy readout.
- * USB/RS232 Computer interface.
- * Optional Holster, HS-03.
- * Optional USB cable , USB - 01 .
- * Optional data acquisition software,
SW-U801-WIN.
- * Optional Excel data acquisition software,
SW-E802.
- * Optional SD card data logger,
DL-9602SD.

**Bench type, professional
SD card recorder
LCR + Multimeter**



**SMD TEST CLIP
Model : SMDC-21**



**Bench type, professional
SD card real time data recorder
LCR + MULTIMETER, 6,000 counts
Model : DM-9972SD**

- * Professional and bench type
- * Large LCD (96 mm x 55 mm) with back light structure.
- * Real time data logger, save the data into the micro SD memory card and can be downloaded to the Excel, extra software is no need.
- * Real time data logger, built-in clock (year/ month/date/hour minute/second), sample time 1 to 3600 seconds.
- * CAT III 1000V.
- * True RMS, auto/manual range.
- * Large LCD 6,000 counts.
- * Main functions :
ACA, ACV, DCA, DCV, ohm, continuity buzzer, diode, capacitance, Inductance, Hz, temperature.
- * uA, mA, 10 Amp current measurement with fuse protection.
- * Data hold, relative, peak, Max., Min..
- * Auto power off.
- * RS232/USB computer interface.
- * SD memory card capacity : 1 GB to 16 GB, micro SD card.
- * Power by DC 1.5 V (AA/UM-3 alkaline type) battery x 6 PCs or DC 9V adapter in.
- * Dimension : 280 x 210 x 90 mm.
- * Optional SMD test clips, SMDC-21.
- * Optional USB cable, USB-01.
- * Optional data acquisition softwares, SW-U801-WIN.
- * Optional Excel data acquisition softwares, SW-E802.

Bench type, professional
100 Hz/120 Hz/1 KHz/10 KHz
LCR METER

Model : LCR-9185SD

- * Professional and bench type
- * Large LCD (96 mm x 55 mm) with back light structure.
- * Real time data logger, save the data into the SD card and can be downloaded to the Excel, extra software is no need.
- * 19999/1999 counts dual LCD display.
- * Auto LCR smart check and measurement.
- * Test range : (ex : F = 1 KHz)
 L : 20.0 uH to 200.0 H
 C : 20.0 pF to 10.00 mF
 R : 20.000 to 20.0 MΩ
- * Series/Parallel modes are selectable.
- * DCR mode 20.00 to 20.0 MΩ
- * Five test frequencies are available :
 100 Hz/120 Hz/1 KHz/10 KHz
- * Ls/Lp/Cs/Cp with D / Q / θ / ESR Parameter.
- * LCD Display with backlight structure.
- * RS232/USB computer interface.
- * RS232/USB computer interface.
- * SD memory card capacity : 1 GB to 16 GB SD card.
- * Power by DC 1.5 V (AA/UM-3 alkaline type) battery x 6 PCs or DC 9V adapter in.
- * Dimension : 280 x 210 x 90 mm.
- * Optional SMD test clips, SMDC-21.
- * Optional USB cable, USB-01.
- * Optional data acquisition software, SW-U801-WIN.
- * Optional Excel data acquisition software, SW-E802.

Bench type, professional
SD card recorder
LCR + Multimeter



SMD TEST CLIP
Model : SMDC-21

Bench type, professional
SD card real time data recorder
MULTIMETER

Model : DM-9971SD

- * Professional and bench type
- * Large LCD (96 mm x 55 mm) with back light structure.
- * Real time data logger, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * CAT III 1000V.
- * True RMS, auto/manual range.
- * Large LCD 6,000 counts.
- * Main functions :
 ACA, ACV, DCA, DCV, ohm, continuity buzzer, diode, capacitance, Hz.
- * uA, mA, 10 Amp current measurement with fuse protection.
- * Data hold, relative, peak, Max., Min..
- * RS232/USB computer interface.
- * SD memory card capacity : 1 GB to 16 GB SD card.
- * Power by DC 1.5 V (AA/UM-3 alkaline type) battery x 6 PCs or DC 9V adapter in.
- * Dimension : 280 x 210 x 90 mm.
- * Optional USB cable, USB-01.
- * Optional data acquisition software, SW-U801-WIN.
- * Optional Excel data acquisition software, SW-E802.



HIGH PRECISION MILLIOHM METER

Model : MO-2013

- * Professional bench type milliohm meter.
- * 20 m /200 m /2 /20 /200 /2 K /20 K ohm.
- * Best resolution : 0.001 milliohm.
- * Measuring the resistance of components precisely, ideal for testing protective conductors, lightning conductors and welded points.
- * 20,000 counts, Jumbo LCD with back light.
- * 4 terminal devices for accurate measurement of very low resistance, Kelvin clips are included.
- * Hi / Lo warning, built-in buzzer sound (Good status) to assist the Q.C . judgment.
- * " Calculate " function to measure cable / wire length.
- * RS232/USB computer interface.
- * Optional USB cable, USB-01.
- * Optional data acquisition software, SW-U801-WIN.
- * Optional Excel data acquisition software, SW-E802.
- * Power : AC 110V or AC 220 V/AC 230 V.



POWER ANALYZER, Bench type

Model : DW-6090A

- * Multi-functions : WATT, VA, Whr, COS θ (Power factor), ACV, ACA, DCV, DCA, Hz, ohm.
- * True AC power (Watt) & apparent power (VA) measurement.
- * True rms measurement for ACV, ACA.
- * 0.1 W resolution (< 1000 W), high precision an high resolution in the low watt range, good performance for low power LED lamp watt measurement.
- * Auto range.
- * Accept different kinds current input signal : direct input, inductive clamp probe or CT (current transformer).
- * Peak hold & data hold.
- * Watt & VA measurement with Hi, low alarm setting.
- * RS-232/USB computer interface.
- * Optional USB cable, USB-01.
- * Optional data acquisition software, SW-U801-WIN.
- * Optional EXCEL data acquisition software, SW-E802.
- * Power supply : DC 1.5V AA (UM-3) battery x 6 PCs or AC to DC adapter (optional).



Bench type, professional SD card recorder SERIES pH/ORP, Water quality

Bench type

SD Card real time data recorder

pH/ORP METER

Model : BPH-241SD

- * Bench type pH METER
- * Real time data logger, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * One meter for multi purpose operation : pH/ORP, measurement.
- * pH : 0 to 14.00 pH, ORP : ± 1999 mV.
- * Function can select pH or ORP.
- * pH measurement can select ATC or manual temperature adjustment.
- * pH measurement can make the auto calibration for pH 7, pH 4 and pH 10 or other value.
- * SD card capacity : 1 GB to 16 GB.
- * Wide applications: water conditioning, aquariums, beverage, fish hatcheries, food processing, photography, laboratory, paper industry, plating industry, quality control, school & college, water conditioning.
- * LCD with backlight, easy reading.
- * Data hold, record max. and min. reading.
- * Power by DC 1.5 V (AA/UM-3 alkaline type) battery x 6 PCs or DC 9V adapter in.
- * RS232/USB PC COMPUTER interface.



Bench type

SD Card real time data recorder

pH/ORP, DO, CD/TDS/Hardness, Salt METER

WATER QUALITY METER

Model : BWA-2018SD

- * Bench type Water quality METER
- * Multi-function : pH/ORP, Salt Conductivity/TDS/Hardness/ Resistivity, Dissolved oxygen.
- * pH : 0 to 14.00 pH.
- * ORP (mV) : $\pm 1,999$ mV.
- * Conductivity : 20 μ S/200 μ S/2 mS/20 mS/200 mS.
- * TDS : 13.20/132/1,320/13,200/132,000 ppm.
- * Hardness : 10/100/1,000/10,000/100,000 ppm.
- * Salt : 0 to 12.0% salt (% weight) .
- * Dissolved oxygen : 0 to 20.0 mg/L.
- * ATC (automatic temperature compensation) .
- * Data hold, Record (Max., Min.) .
- * RS232/USB computer interface.
- * SD card capacity : 1 GB to 16 GB.
- * Pt glass electrode, CDPB-04 is included, available for Conductivity/TDS/Hardness/ Resistivity/Salt, high performance for pure water low conductivity measurement.
- * Power by DC 1.5 V (AA/UM-3 alkaline type) battery x 6 PCs or DC 9V adapter in.
- * Optional electrodes : pH electrode, ORP electrode, Dissolved oxygen probe, pH ATC probe (TP-07) .



Bench type, professional
SD card recorder
Dissolved Oxygen
CD/TDS/Hardness/Resistivity

SERIES

Bench type

SD Card real time recorder
CD/TDS/Hardness/Resistivity
CONDUCTIVITY METER

Model : BCT-4320SD

- * Bench type conductivity meter.
- * Real time data logger ,save the data into the SD memory card and can be downloaded the Excel, extra software is no need.
- * Multi-function :
 Conductivity, TDS, Salt, Hardness, Resistivity, Temp..
- * Conductivity resolution, 5 ranges :
 20uS x 0.01 uS, 200uS x 0.1uS ,
 2 mS x 0.001 mS, 20 mS x 0.01 mS,
 200 mS x 0.1 mS.
- * Resistivity, 5 ranges :
 100 M -cm, 10 M -cm, 1 M -cm, 100 K -cm,
 10 K -cm.
- * TDS, 5 ranges :
 13.20/132/1,320/13,200/132,000 ppm.
- * Hardness, 5 ranges :
 10/100/1,000/10,000/100,000 ppm.
- * Pt glass electrode, high performance for pure water low conductivity measurement.
- * Automatic temp compensation.
- * It can select Temp. Coefficient of measurement solution.
- * Record (Max ,Min) Data hold ,zero adjust.
- * SD card capacity : 1 GB to 16 GB.
- * Jumbo LCD display with backlight.
- * Power by DC 1.5 V (AA/UM-3 alkaline type) battery x 6 PCs or DC 9V adapter in.
- * RS232/USB computer interface.



Bench type Water quality METER
SD Card real time data recorder
DISSOLVED OXYGEN METER

Model : BDO-5513SD

- * Bench type dissolved oxygen meter.
- * Real time data logger, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * Use the polar graphic type oxygen probe with temperature sensor, high precision measurement for Dissolved Oxygen (DO) and temperature measurement.
- * Dissolved oxygen range : 0 to 20 mg/L.
- * Auto temp. compensation, Auto Calibration.
- * % salt and height value compensation adjustment.
- * Probe head with diaphragm set and electrolyte are included.
- * Dissolved oxygen probe head can be connected with BOD bottle.
- * Record (Max., Min.), Data hold, zero adjust.
- * SD card capacity : 1 GB to 16 GB.
- * Jumbo LCD display with backlight.
- * Power by DC 1.5 V (AA/UM-3 alkaline type) battery x 6 PCs or DC 9V adapter in.
- * RS232/USB computer interface.



Fruit hardness SERIES



**Precision Fruit Sclerometer
FRUIT HARDNESS TESTER, 5000 g
Model : FR-5105**

- * Fruit Penetrometer, Fruit Sclerometer.
- * The tester is used to measure the hardness of most kind fruits such as apple, pear, strawberry, grape, large/hard fruits, small/soft fruits. It is suitable for the fruit scientific research department, fruit company, fruit farm, agriculture colleges and universities to improve the fruit quality, the harvest storage, the product transportation....by the fruits' hardness. It is the useful tester to judge fruit's mature degree.
- * Max. capacity : 5,000 gf (5 Kgf) x 1 gf.
- * Unit : g/oz/Newton.
- * Use load cell sensor, high precision.
- * Digital display with Peak hold function, easy measurement.
- * Tension or Compression, Zero.
- * Positive/ Reverse display.
- * 4 digits LCD with back light.
- * Tip sizes : 3 mm, 6 mm, 8 mm, 11 mm.
- * RS-232/USB computer interface.
- * Complete set with hard carrying case and 4 kinds of Penetrometer tips (3 mm, 6 mm, 8 mm, 11 mm).
- * Test stand, FS-1001, optional.
- * USB cable (USB-01) and the data acquisition software (SW-U801-WIN, SW-E802) are optional.



Penetrometer Tips
FRTP-11 (11 mm Tip)
FRTP-08 (8 mm Tip)
FRTP-06 (6 mm Tip)
FRTP-03 (3 mm Tip)

for FR-5105, FR-5120
max. capacity 100 Kg
TEST STAND
Model : FS-1001



**Precision Fruit Sclerometer
FRUIT HARDNESS TESTER, 20 Kg
Model : FR-5120**

- * Fruit Penetrometer, Fruit Sclerometer.
- * The tester is used to measure the hardness of most kind fruits such as apple, pear, strawberry, grape, large/hard fruits, small/soft fruits. It is suitable for the fruit scientific research department, fruit company, fruit farm, agriculture colleges and universities to improve the fruit quality, the harvest storage, the product transportation....by the fruits' hardness. It is the useful tester to judge fruit's mature degree.
- * Max. capacity : 20 Kgf x 0.01 Kgf (10 gf).
- * Unit : Kg/LB/Newton.



Penetrometer Tips
FRTP-11 (11 mm Tip)
FRTP-08 (8 mm Tip)
FRTP-06 (6 mm Tip)
FRTP-03 (3 mm Tip)

* Use load cell sensor, high precision.

- * Digital display with Peak hold function, easy measurement.
- * Tension or Compression, Zero.
- * Positive/ Reverse display.
- * 4 digits LCD with back light.
- * Tip sizes : 3 mm, 6 mm, 8 mm, 11 mm.
- * RS-232/USB computer interface.
- * Complete set with hard carrying case and 4 kinds of tips (3 mm, 6 mm, 8 mm, 11 mm).
- * Test stand, FS-1001, optional.
- * USB cable (USB-01) and the data acquisition software (SW-U801-WIN, SW-E802) are optional.

SD card data recorder Force gauge, fast sampling time Patented

SERIES



SD Card real time recorder 20 ms sampling time recorder FORCE GAUGE, 20 Kg

Model : FG-6020SD

- * 20 Kg, Kg/LB/Newton.
- * Fast/Slow AD selection.
- * Tension or Compression, Peak hold, Zero.
- * Positive/ Reverse display.
- * SD card data recorder :
Normal mode, Peak hold mode.
- * 4 digits LCD with back light.
- * RS-232/USB computer interface.
- * Full line accessories, optional test stand.
- * DC 1.5V battery (UM-3/AA) x 6 or DC 9V adapter in, Patented.



Function of data recorder for FG-6005SD, FG-6020SD, FG-6100SD

- * Data record mode : Normal model or Peak hold mode.
- * Normal record mode : Set sampling time from 1 second to 8 hours.
- * Peak hold record mode : Set sampling time from 20 ms to 500 ms.
- * Memory capacity of normal record mode : 1 GB to 16 GB.
- * Memory capacity of peak hold record mode : 1000 data no. (max.)
- * Under Peak hold record mode, if execute the " Data record " function, the memory circuit will store 1000 data no. (max.) measuring data into the SD card per fast speed sampling time (20 ms to 500 ms).
- * Under Normal record mode, if execute the " Data record " function, will save the measuring data along the real time value (Year/Month/Date/Hour/Minute/Second) into the SD card per normal sampling time (1 second to 8 hours).
- * After saving the data into the SD memory card, it can be downloaded the data to the Excel directly, extra software is no need. User can make the further data analysis (graphic analysis) by themselves.

SD Card real time recorder 20 ms sampling time recorder FORCE GAUGE, 5,000 g

Model : FG-6005SD

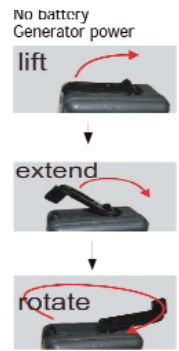
- * 5,000 g, g/oz/Newton.
- * Fast/Slow AD selection.
- * Tension or Compression, Peak hold, Zero.
- * Positive/ Reverse display.
- * SD card data recorder :
Normal mode, Peak hold mode.
- * 4 digits LCD with back light.
- * RS-232/USB computer interface.
- * Full line accessories are included.
- * Optional test stand FS-1001, refer to page 75.
- * DC 1.5V battery (UM-3/AA) x 6 or DC 9V adapter in.
- * Patented.



SD Card real time recorder 20 ms sampling time recorder FORCE GAUGE, 100 Kg

Model : FG-6100SD

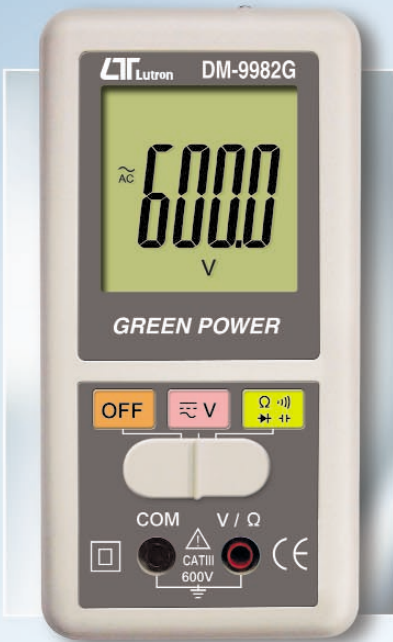
- * 100 Kg, Kg/LB/Newton.
- * Fast/Slow AD selection.
- * Tension or Compression, Peak hold, Zero.
- * Positive/ Reverse display.
- * SD card data recorder : Normal mode, Peak hold mode.
- * 4 digits LCD with back light.
- * RS-232/USB computer interface.
- * Separate 100 Kg load sensor.
- * Optional test stand FS-1001, refer to page 75.
- * DC 1.5V battery (UM-3/AA) x 6 or DC 9V adapter in.
- * Patented.



Green power, hybrid power
SMART MULTIMETER

Model : DM-9982G

- * Power supply from generator (battery is no need) or battery power.
- * Smart operation, 2 intelligent functions : V, Ω .
- * V : ACV, DCV measurement automatically.
- * Ω : Ohm, Diode, Continuity, Cap. automatically.
- * Large LCD display, 6,000 counts.
- * CAT III-600V.
- * Auto power off.
- * DIY version, easy operation.
- * Size : 151 x 78 x 43 mm.



Green power, hybrid power
SMART MULTIMETER

Model : DM-9983G

- * Power supply from generator (battery is no need) or battery power.
- * Smart operation, 3 intelligent functions : V, Ω , A.
- * V : ACV, DCV measurement automatically.
- * Ω : Ohm, Diode, Continuity, Cap. automatically.
- * A : DCA, ACA, 10A/60mA/600mA.
- * Function Keys : Hold / Select / Hz / Range.
- * Large LCD display, 6,000 counts.
- * CAT III-600V, Auto power off.
- * Size : 151 x 78 x 43 mm.



Smart

Green power, Hybrid power
CLAMP METER, smart

Model : CM-9942G

- * Power supply from generator (battery is no need) or battery power.
- * Smart operation, functions : A, V, Ω
- * V : ACV, DCV.
- * Ω : Resistance , Diode, Continuity, Capacitance.
- * A : ACA (600A, 1000A) with auto range.
- * Function key : Hz, Hold.
- * Heavy duty, CAT III-600V.



**ORP, auto calibration
pH METER**

Model : PH-221E

- * 0 to 14.00 pH, $\pm 1,999$ mV.
- * LCD shows both pH and the temperature.
- * ATC or manual Temp. compensation.
- * Auto calibration for pH 4, pH 7 and pH 10.
- * Optional pH electrode and the ATC probe.
- * DC 9V battery (006P).
- * Meter size : 135 x 60 x 33 mm.



DISSOLVED OXYGEN METER

Model : DO-5519E

- * Range : 0 to 20 mg/L x 0.1 mg/L.
- * Temperature : 0 to 50 °C.
- * LCD display, pocket size.
- * Automatic temperature compensation.
- * Separate probe, easy operation.
- * Power : DC 9V battery (006P).
- * Meter size : 135 x 60 x 33 mm.



+ type K/J Temp.

LIGHT METER

Model : LX-110E

- * 0 to 20,000 Lux, 0 to 1.860 Ft-cd. auto range.
- * Sensor meet C.I.E. spectrum.
- * Light sensor with 2 filters, professional quality.
- * Light sensor with cosine correction.
- * Type K thermometer : -200 to 1300 °C.
- Type J thermometer : -200 to 1100 °C.
- * Data hold, Record (max., min.).
- * DC 9V battery (006P).
- * Meter size : 135 x 60 x 33 mm.



Dew point

HUMIDITY/TEMP. METER

Model : HT-305E

- * Measurement : Humidity, Temp., Dew point
- * Pocket and compact housing case.
- * Fast response time.
- * Humidity : 10 to 95 %RH , Temp. : 0 to 50 °C.
- * Resolution : 0.1 %RH, 0.1 degree.
- * DC 9V battery (006P).
- * Separate probe.
- * Meter size : 135 x 60 x 33 mm.

T1, T2, T1-T2, two displays

TWO CHANNEL THERMOMETER

Model : TM-925E

- * T1, T2, T1-T2, Type K/J.
- * °C/°F, 0.1 degree/1 degree.
- * Type K : -199.9 to 1300 °C.
- * Type J : -199.9 to 1100 °C.
- * Data hold, Record (max., min.).
- * DC 9V battery (006P)
- * Meter size : 135 x 60 x 33 mm.
- * Optional Type K Temp. probes : TP-01, TP-02A, TP-03, TP-04, TP-05.



Smart



+ type J/K Temp.

ANEMOMETER

Model : AM-4210E

- * Air velocity and air Temp. measurement.
- * 0.4 to 25.0 m/s, ft/min., km/h, knots, mile/h.
- * Type K thermometer : -200 to 1300 °C.
- Type J thermometer : -200 to 1100 °C.
- * Low friction ball-bearing vane.
- * Separate probe, high reliability.
- * DC 9V battery (006P).
- * Meter size : 135 x 60 x 33 mm.



Green power, Hybrid power

CLAMP METER, smart

Model : CM-9942G

- * Power supply from generator (battery is no need) or battery power.
- * Smart operation, functions : A, V, Ω.
- * V : ACV, DCV.
- * Ω : Resistance, Diode, Continuity, Capacitance.
- * A : ACA (600A, 1000A) with auto range.
- * Function keys : Hz, Hold.
- * Heavy duty, CAT III-600V.
- * Patented.



CONDUCTIVITY METER, ATC

Model : CD-4322E

- * 3 ranges : 2 mS, 20 mS, 100 mS, auto range.
- * Temperature measurement, °C/ °F.
- * LCD display, pocket type.
- * Automatic temperature compensation.
- * Separate probe, easy operation.
- * Power : DC 9V battery (006P).
- * Meter size : 135 x 60 x 33 mm.

pocket type, RS232

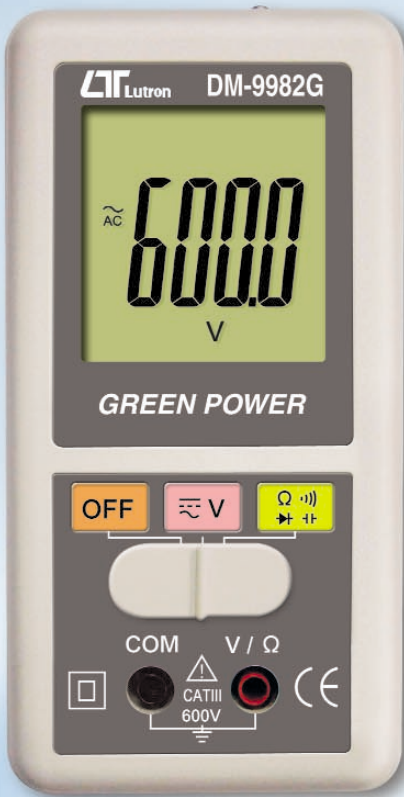
PHOTO/CONTACT TACHOMETER

Model : DT-2230

- * Mini pocket size, easy carryout.
- * Photo tach. : 5 to 100,000 RPM.
- Contact tach. : 0.5 to 19,999 RPM.
- Surface speed : m/min., ft/min., inch/min..
- * Laser beam for Photo tachometer, long measuring distance.
- * LCD display, RS-232/USB interface.
- * DC 1.5V battery (UM-4/AAA) x 4.
- * Optional USB cable, USB-01.
- * Optional data acquisition softwares, SW-U801-WIN, SW-E802.



Smart



Green power, hybrid power
SMART MULTIMETER

Model : DM-9982G

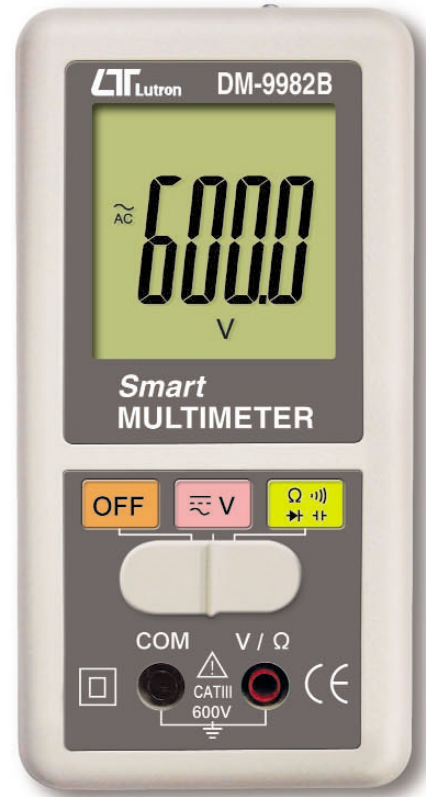
- * Power supply from generator (battery is no need) or battery power.
- * Smart operation, 2 intelligent functions : V, Ω.
- * V : ACV, DCV measurement automatically.
- * Ω : Ohm, Diode, Continuity, Cap. automatically.
- * Large LCD display, 6,000 counts.
- * Auto power off.
- * DIY version, easy operation.
- * Size : 151 x 78 x 43 mm.
- * Large LCD display, 6,000 counts.
- * CAT III-600V, Auto power off.
- * Optional soft carrying case, CA-52A.
- * Patented.

Smart

SMART MULTIMETER

Model : DM-9982B

- * Smart operation, 2 intelligent functions : V, Ω.
- * V : ACV, DCV measurement automatically.
- * Ω : Ohm, Diode, Continuity, Capacitance automatically.
- * Large LCD display, 6,000 counts.
- * CAT III 600V.
- * Auto power off.
- * DIY version, easy operation.
- * Power : DC 9V battery (006 P).
- * Size : 151 x 78 x 43 mm.
- * Optional soft carrying case, CA-52A.

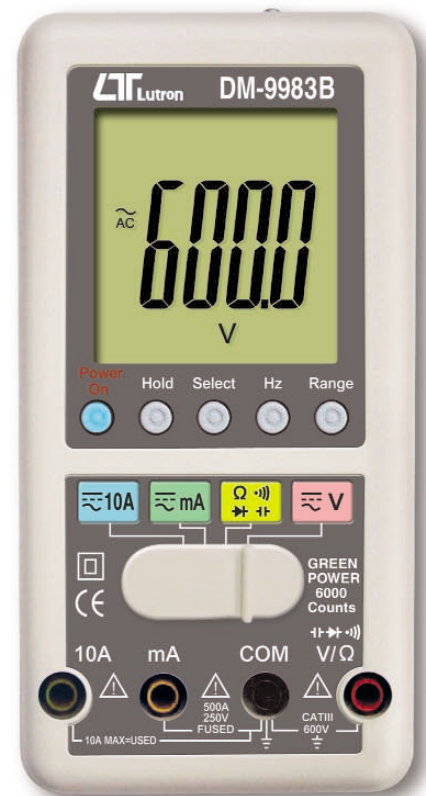


Smart

SMART MULTIMETER

Model : DM-9983B

- * Smart operation, 3 intelligent functions : V, Ω, A.
- * V : ACV, DCV measurement automatically.
- * Ω : Ohm, Diode, Continuity, Capacitance automatically.
- * A : DCA, ACA, 10A/60mA/600mA.
- * Function Keys : Hold / Select / Hz / Range.
- * Large LCD display, 6,000 counts.
- * CAT III 600V, Auto power off.
- * Power : DC 9V battery (006 P).
- * Size : 151 x 78 x 43 mm.
- * Optional soft carrying case, CA-52A.





**class 2, auto range, economical
SOUND LEVEL METER**

Model : SL-3113B

- * Meet IEC61672 class 2.
- * Auto range : 30 to 130 dB.
- * A frequency weighting.
- * Fast/slow time weighting.
- * Peak hold, Data hold.
- * Record (Max., Min.).
- * DC 9V battery (006 P).
- * Optional wind shield ball, SB-01.

**SOUND LEVEL METER,
class 2, auto/manual**

Model : SL-4113B

- * Meet IEC61672 class 2
- * Auto range : 30 to 130 dB.
- * Manual range : 3 ranges
30 to 80 dB, 50 to 100 dB, 80 to 130 dB .
- * A/C frequency weighting.
- * Fast/slow time weighting.
- * Peak hold, Data hold.
- * Record (Max., Min.).
- * DC 9V battery (006 P).
- * Optional wind shield ball, SB-01.



ANEMOMETER + Temp.

Model : AM-4100B

- * 0.3 to 25.0 m/s, separate probe.
- * m/s, ft/min, km/h, mile/h, knots, Temp..
- * Temp. measurement : 0 to 50 °C, °C/ °F.
- * Data hold, Record (Max., Min.).
- * Separate probe, easy operation.
- * DC 9V battery (006 P).

**DUAL CHANNEL
THERMOMETER**

Model : TM-928B

- * Type K thermometer :
- 100 to 1300 °C.
- * Type J thermometer : -100 to 1200 °C.
- * Max., Min., Memory recall button.
- * °C/°F, 0.1°, T1, T2, T1-T2.
- * Data hold, Record (Max., Min.).
- * DC 9V battery (006 P).
- * Optional Temp. probes :
- TP-01, TP-02A, TP-03,
TP-04, TP-05.



**+ORP, ATC
pH METER**

Model : PH-209B

- * pH : 0 to 14.00 pH
- * mV : ± 1,000 mV, for ORP measurement.
- * ATC or Manual temperature compensation.
- * Auto calibration, Data hold, Record.
- * DC 9V battery (006 P).
- * pH electrodes (optional) :
- PE-01, PE-03, PE-11, PE-02,
PE-08, PE-06HDA.





4-20 mA Controller/Alarm/Indicator

Model : CT-2012

- * Input : 4-20 mA DC, linear.
- * User can default the desired display value between -1999 to 9999 (decimal point can be selected to DP1, DP2, DP3) and all the preset data will be saved into the memory circuit permanently.
- * When CT-2012 cooperates with any 4 to 20 mA transmitters, whole system will become the high performance Controller/Alarm/Indicator.
- * Control output : 2 points (COM, NO).
- * Alarm output : 2 points (COM, NO).
- * DC voltage power supply output.
- * RS232/USB computer interface.
- * Power : 90 ACV to 260 ACV, 50/60 Hz.
- * DIN size : 96 x 48 mm. Depth : 107 mm.



PX-01
(optional)



PI-06
(optional)

RPM CONTROLLER/MONITOR

Model : PDT-2250

- * 10 to 99,990 RPM (0.1 rpm, <1,000 rpm).
- * Control setting, Hi/Lo alarm setting.
- * Control relay output, alarm relay output.
- * Power : 90 ACV to 260 ACV, 50/60 Hz.
- * RS-232/USB computer interface.
- * DIN size : 96 x 48 mm. Depth : 107 mm.
- * Optional proximity sensor PX-01, PX-02.
- * Optional photo sensor PI-06.



Humidity probe
(included)

PANEL HUMIDITY/TEMP. METER

Model : PHT-3109

- * Humidity : 10 to 95 %RH.
- * Temperature : 0 to 50 °C.
- * Resolution : 0.1 %RH, 0.1 degree.
- * Humidity control setting, Temp. control setting.
- * Humidity control relay output, Temp. control relay output.
- * Power : 90 ACV to 260 ACV, 50/60 Hz.
- * RS-232/USB computer interface.
- * DIN size : 96 x 48 mm. Depth : 107 mm.
- * Accessory included : Humidity/Temp. probe.



RS232 CONTROLLER/MONITOR

Model : PRS-2321

- * Cooperate the LUTRON instruments (built-in the RS232 interface), the panel meter will show all the measuring value.
- * U1 control setting, U2 control setting.
- * U1 control relay output, U2 control relay output.
- * U1, U2, U3 display.
- * Power : 90 ACV to 260 ACV, 50/60 Hz.
- * RS-232/USB computer interface.
- * Interface cable UPCB-03 is included.
- * DIN size : 96 x 48 mm. Depth : 107 mm.



pH electrode, PE-21
(Optional)

pH CONTROLLER/MONITOR

Model : PPH-2108

- * 0 to 14 pH x 0.01 pH.
- * ATC (automatic temperature compensation).
- * Manual temperature compensation adjustment.
- * pH control setting, Temp. control setting.
- * pH control relay output, Temp. control relay output.
- * Power : 90 ACV to 260 ACV, 50/60 Hz.
- * RS-232/USB computer interface.
- * DIN size : 96 x 48 mm. Depth : 107 mm.
- * Optional heavy duty pH electrodes, PE-21.
- * Optional ATC probe, TP-07..



PRESSURE CONTROLLER/MONITOR

Model : PPS-9312

- * Meter can be connected with 2, 5, 10, 20, 50, 100, 400 bar sensor, no calibration procedures are necessary when changing a new sensor .
- * Unit select : Bar, PSI, Kg/cm², inch Hg, mm Hg, inch H₂O, meter H₂O, Atmosphere.
- * Control setting, Hi/Lo alarm setting.
- * Control relay output, alarm relay output.
- * Power : 90 ACV to 260 ACV, 50/60 Hz.
- * Cooperate with the 4-20 mA pressure input, sensor can be installed in the faraway position.
- * DC 12V output, used for the power of pressure sensor.
- * RS-232/USB computer interface.
- * DIN size : 96 x 48 mm. Depth : 107 mm.
- * Optional pressure sensor, TR-PS2W-xxBAR.
- * Optional USB cable, USB-01.
- * Optional data acquisition softwares, SW-U801-WIN, SW-E802.



2 WIRES PRESSURE TRANSMITTER

Model : TR-PS2W-xxBAR

- * Range : 2, 5, 10, 20, 50, 100, 400 BAR.
- * Output : 4 to 20 mA DC.
4 mA = 0 pressure, 20 mA = full scale pressure
- * 2 wires, both for signal and power supply.
- * Power : DC 9V to 30V.
- * Precision ceramic type pressure sensor.
- * External zero and span adjustments.
- * Output with socket, easy replacement.
- * Allow higher cable load resistance, transmitter can be installed far away from the controller/indicator.
- * Protection for the reverse wires connecting.
- * TR-PS2W can cooperate the " Pressure controller/monitor, PPS-9312 or the " 4-20 mA Controller/Alarm/Indicator CT-2012 " .



TEMPERATURE CONTROLLER/MONITOR

Model : PTM-9957

- * Temp. sensor : type K/J/T/E/R/S thermocouple, Pt 100 ohm.
- * Type K range : -100 to 1300 °C, °C/°F.
Type J range : -100 to 1200 °C, °C/°F.
Type T range : -100 to 400 °C, °C/°F.
Type E range : -100 to 900 °C, °C/°F.
Type R range : 0 to 1700 °C, °C/°F.
Type S range : 0 to 1500 °C, °C/°F.
Pt 100 ohm range : -199 to 850 °C, °C/°F.
- * Resolution : 0.1 degree (< 1000 degree)
1 degree (≥ 1000 degree)
- * Control setting, Hi/Lo alarm setting.
- * Control relay output, alarm relay output.
- * Power : 90 ACV to 260 ACV, 50/60 Hz.
- * RS-232/USB computer interface.
- * DIN size : 96 x 48 mm. Depth : 107 mm.
- * Optional type K probe : TP-01, TP-02A, TP-03, TP-04, TP-05.
- * Optional Pt probe : TP-100B.
- * Optional USB cable, USB-01.
- * Optional data acquisition softwares, SW-U801-WIN, SW-E802.

Controller/Monitor SERIES

POWER CONTROLLER/MONITOR

Model : PWA-6065

- * Measurement range (no cooperate with the external CT and the PT).
Watt : 0 to 6,000 Watt.
ACV : 0 to 600 ACV, 40 to 400 Hz.
ACA : 0 to 10 A, 40 to 400 Hz.
- * True rms for WATT measurement.
- * Current input can cooperate with the external CT (current transformer) such as CT 1000/5A, CT 100/5A ...to expend the measurement range. The CT range can be adjusted with default.
- * Voltage input can cooperate with the external PT (voltage transformer) to expend the measurement range. The PT range can be adjusted with default.
- * Control setting, Hi/Lo alarm setting.
- * Control relay output, alarm relay output.
- * Power : 90 ACV to 260 ACV, 50/60 Hz.
- * RS232/USB computer interface.



AC Current CONTROLLER/MONITOR

Model : PAA-6069

- * Measurement range (no cooperate with the external CT) :
ACA : 0 to 10 A, 40 to 400 Hz.
- * True rms for ACA measurement.
- * Current input can cooperate with the external CT (current transformer) such as CT 1000/5A, CT 100/5A ...to expend the measurement range. The CT range can be adjusted with default.
- * Control setting, Hi/Lo alarm setting.
- * Control relay output, alarm relay output.
- * Power : 90 ACV to 260 ACV, 50/60 Hz.
- * RS232/USB computer interface.



APPARENT POWER CONTROLLER/MONITOR

Model : PVA-6067

- * Measurement range (no cooperate with the external CT and the PT) :
VA : 0 to 6,000 VA.
ACV : 0 to 600 ACV, 40 to 400 Hz.
ACA : 0 to 10 A, 40 to 400 Hz.
- * True rms for VA measurement.
- * Current input can cooperate with the external CT (current transformer) such as CT 1000/5A, CT 100/5A ...to expend the measurement range. The CT range can be adjusted with default.
- * Voltage input can cooperate with the external PT (voltage transformer) to expend the measurement range. The PT range can be adjusted with default.
- * Control setting, Hi/Lo alarm setting.
- * Control relay output, alarm relay output.
- * Power : 90 ACV to 260 ACV, 50/60 Hz.
- * RS232/USB computer interface.

AC Voltage CONTROLLER/MONITOR

Model : PAV-6068

- * Measurement range (no cooperate with the external PT) :
ACV : 0 to 600 ACV, 40 to 400 Hz.
- * True rms for ACV measurement.
- * Voltage input can cooperate with the external PT (voltage transformer) to expend the measurement range. The PT range can be adjusted with default.
- * Control setting, Hi/Lo alarm setting.
- * Control relay output, alarm relay output.
- * Power : 90 ACV to 260 ACV, 50/60 Hz.
- * RS232/USB computer interface.



POWER FACTOR CONTROLLER/MONITOR

Model : PPF-6066

- * Power factor Measurement range :
0.10 to 1.00 PF.
- * Resolution : 0.01 PF (power factor).
- * Signal input :
ACV : 0 to 600 ACV, 40 to 400 Hz.
ACA : 0 to 10 A, 40 to 400 Hz.
- * Control setting, Hi/Lo alarm setting.
- * Control relay output, alarm relay output.
- * Power : 90 ACV to 260 ACV, 50/60 Hz.
- * RS232/USB computer interface.



Acceleration/Velocity/Displacement Vibration CONTROLLER/MONITOR

Model : PVB-8219

- * Function: Acceleration/Velocity/Displacement.
- * Acceleration: 200 m/s.
- * Velocity: 200 mm/s.
- * Displacement(p-p): 2 mm.
- * Professional vibration meter supply with vibration sensor and magnetic base, full set.

- * Frequency range 10 Hz - 1 KHz, sensitivity relative meet ISO 2954.
- * Metric or Imperial measurement.
- * Control setting, Hi/Lo alarm setting.
- * Control relay output, alarm relay output.
- * Power : 90 ACV to 260 ACV, 50/60Hz.
- * RS-232/USB computer interface.
- * DIN size : 96 x 48 mm. Depth : 107 mm.



IR Temperature CONTROLLER/MONITOR

Model : PIR-9959A

- * Input signal : 4 to 20 mA, 2 wires.
- * Input sensor : Infrared Temp. transmitter, TR-IR420.
- * Measurement : 0 to 300 °C, °C/°F.
- * Control setting, Hi/Lo alarm setting.
- * Control relay output, alarm relay output.
- * Power : 90 ACV to 260 ACV, 50/60 Hz.
- * Use the 4-20 mA input, IR temp. sensor can be installed in the faraway position.
- * RS-232/USB computer interface.

- * DIN size : 96 x 48 mm. Depth : 107 mm.
- * IR Temp. Transmitter, TR-IR420 is the optional accessory.
- * Optional USB cable, USB-01.
- * Optional data acquisition software, SW-U801-WIN.
- * Optional Excel data acquisition software, SW-E802.



DC Voltage CONTROLLER/MONITOR

Model : PDV-6070

- * DCV measurement range : 199.9 mV to 600.0 DCV.
- * 5 ranges can be adjusted by jumper : 199.9 mV/ 2 V/20 V/200 V/600 V.
- * Input Impedance 10 M Ω .
- * Control setting, Hi/Lo alarm setting.
- * Control relay output, alarm relay output.
- * Power : 90 ACV to 260 ACV, 50/60 Hz.
- * RS232/USB computer interface.
- * DIN size : 96 x 48 mm. Depth : 107 mm.



DC Current CONTROLLER/MONITOR

Model : PDA-6071

- * DCA measurement range : 199.9uA to 10.00A.
- * 6 ranges : can be adjusted by jumper : 199.9 uA/2 mA/20 mA/200 mA/2A/10 A.
- * Fuse protection for all ranges.
- * Control setting, Hi/Lo alarm setting.
- * Control relay output, alarm relay output.
- * Power : 90 ACV to 260 ACV, 50/60 Hz.
- * RS232/USB computer interface.
- * DIN size : 96 x 48 mm. Depth : 107 mm.



4-20 mA output, Infrared Temp. IR Temp. TRANSMITTER

Model : TR-IR420

- * Analog outputs, 4 to 20 mA : 4 mA = 0 °C (32 °F) 20 mA = 300 °C (572 °F)
- * Emissivity : 0.95, fixed.
- * D/S (Distance/spot) ratio : 7 : 1.
- * Power supply : DC 9V to 30 V : Max. Output Load : 200 ohms.
- * 3 wires : Red, bare wire : Power supply Black, bare wire : 4 to 20 mA output
- * Output Temp. ranges : 0 to 300 °C (0.053 mA/°C). 32 to 572 °F (0.028 mA/°F).
- * Mounting : Tripod Fix Nut.
- * Size : 160 x 92 x 45 mm.

4 to 20 mA transmitter Wind speed, Wind direction

4 to 20 mA

WIND DIRECTION TRANSMITTER Model : TR-AD3W

- * Measuring range : 0 to 360 degrees.
- * Start wind speed : ≤ 0.5 m/s.
- * Accuracy :
 - ± 3 degrees (after calibration).
- * Power supply : DC 12 to 30 V.
- * Output signal : 4 to 20 mA
 - 4 mA = 0 degree
 - 20 mA = 360 degrees
- * 3 wires :
 - Brown (+ Vcc), White (+ lout),
 - Blue (Ground).
- * Typical load resistance : < 250 ohm.
- * Body material : Aluminum alloy.
- * Vane material : Stainless steel.
- * Max. wind speed : 70 m/s.
- * Operating Temp. : -20 to 80 °C.
- * Operating humidity : 0 to 90 %RH.
- * Protection class : IP65.
- * When TR-AM3W cooperate the 4-20 mA Controller/Alarm/Indicator CT-2012, then whole system will become the high performance Wind direction Controller/Alarm/Indicator.

4 to 20 mA

WIND SPEED TRANSMITTER

Model : TR-AM3W

- * Measuring range : 0.5 to 50 m/s
- * Start wind speed : ≤ 0.5 m/s.
- * Accuracy :
 - ± 0.5 m/s (< 5 m/s)
 - $\pm 3\%$ F.S. (≥ 5 m/s)
- * Power supply : DC 12 to 30 V.
- * Output signal : 4 to 20 mA
 - 4 mA = 0 m/s
 - 20 mA = 50 m/s
- * 3 wires :
 - Brown (+ Vcc), White (+ lout),
 - Blue (Ground)
- * Typical load resistance : < 250 ohm.
- * Body material : Aluminum alloy.
- * Wind cup material : Stainless steel.
- * Max. wind speed : 70 m/s.
- * Operating Temp. : -20 to 80 °C.
- * Operating humidity : 0 to 90 %RH.
- * Protection class : IP65.
- * When TR-AM3W cooperate the 4-20 mA Controller/Alarm/Indicator CT-2012, then whole system will become the high performance Wind speed Controller/Alarm/Indicator.



4-20 mA Controller/Alarm/Indicator

Model : CT-2012

- * Input : 4-20 mA DC, linear.
- * User can default the desired display value between -1999 to 9999 (decimal point can be selected to DP1, DP2, DP3) and all the preset data will be saved into the memory circuit permanently.
- * When CT-2012 cooperates with any 4 to 20 mA transmitters, whole system will become the high performance Controller/Alarm/Indicator.
- * Control output : 2 points (COM, NO).
- * Alarm output : 2 points (COM, NO).
- * DC voltage power supply output.
- * RS232/USB computer interface.
- * Power : 90 ACV to 260 ACV, 50/60 Hz.
- * DIN size : 96 x 48 mm. Depth : 107 mm.

2 Wires Transmitter

SERIES

2 WIRES PRESSURE TRANSMITTER

Model : TR-PS2W-xxBAR

- * Range : 2, 5, 10, 20, 50, 100 or 400 BAR.
- * Output : 4 to 20 mA DC.
4 mA = 0 pressure
20 mA = full scale pressure
- * 2 wires, both for signal and power supply.
- * Precision ceramic type pressure sensor.
- * External zero and span adjustments.
- * Output with socket, easy replacement.
- * Allow high cable load resistance, transmitter can be installed far away from the controller/incator.
- * Protection for the reverse wires connecting.
- * TR-PS2W can cooperate the " 4-20 mA Controller/Alarm/Indicator " CT-2012, then become a pressure controller and the indicating system. The user can control and monitor the pressure value remotely.



TR-PS2W-xxBAR



CT-2012 (Pressure)

2 WIRES HUMIDITY TRANSMITTER

Model : TR-RH2W

- * Range : 10 %RH to 95 %RH.
- * Output : 4 to 20 mA DC.
5.6 mA = 10 %RH, 12 mA = 50 %RH
16 mA = 75 %RH, 19 mA = 95 %RH
- * 2 wires, both for signal and power supply.
- * Precision capacitance type humidity sensor.
- * External zero and span adjustments.
- * Allow high cable load resistance, transmitter can be installed far away from the controller/incator.
- * Protection for the reverse wires connecting.
- * TR-RH2W can cooperate the " 4-20 mA Controller/Alarm/Indicator " CT-2012, then become a humidity controller and the indicating system. The user can control and monitor the humidity value remotely.



CT-2012 (Humidity)



TR-RH2W

Light meter Temp., Type K, 2 channels Temp., Pt 100 ohm, Type K



Auto range, LIGHT METER

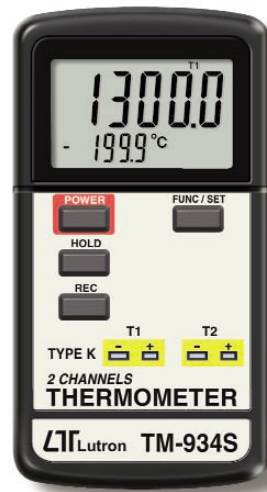
Model : LX-113S

- * 2,000/20,000/50,000 Lux , Auto range.
- * Lux & Ft-candle unit select.
- * Sensor with color correction, 2 filters.
- * Sensor spectrum meets C.I.E.
- * Zero key function.
- * Separate light probe, easy operation
- * Microprocessor circuit.
- * Size : 131 x 70 x 25 mm.
- * DC 9V battery (006 P).

2 channels, T1, T2, T1-T2 DUAL CHANNEL THERMOMETER

Model : TM-934S

- * Type K : -199.9 to 1370.0 °C.
- * Display functions : T1 & T2 , T1-T2 , T1 only.
- * Data hold , Record (max. , min.).
- * Microprocessor circuit.
- * Size : 131 x 70 x 25 mm.
- * DC 9V battery (006 P).
- * Optional full line type K Temp. probes : TP-01, TP-02A, TP-03, TP-04, TP-05.



PT 100 ohm TEMPERATURE PROBE

Model : TP-100

- * The exclusive Pt 100 ohm precision Temp. probe for TM-907A, TM-9017SD, TM-917, TM-917HA, TM-2000, TM-936.
- * Sensor type : Pt 100 ohm.
- * Range : -50 to 400 °C.



TP-01 TP-02A TP-03 TP-04

TYPE K TEMPERATURE PROBE

- TP-01** : -40 to 250 °C, Naked-bead.
- TP-02A** : -50 to 900 °C, 3.2 mm Dia. x 10 cm.
- TP-03** : -40 to 1050 °C, 8 mm Dia. x 10 cm.
- TP-04** : -50 to 400 °C, Surface probe.

Pt 100 ohm, 2 ch. type K THERMOMETER

Model : TM-937S

- * Pt 100 ohm : -199.9 to 850.0 °C.
- * Type K : -199.9 to 1370.0 °C, 2 channels.
- * Display functions : Pt 100 ohm : one channel. Type K : T1 & T2 , T1-T2 , T1 only.
- * Data hold , Record (max. , min.).
- * Microprocessor circuit.
- * Size : 131 x 70 x 25 mm
- * DC 9V battery (006 P).
- * Optional full line type K Temp. probes : TP-01, TP-02A, TP-03, TP-04, TP-05.
- * Optional Pt 100 ohm Temp. probe, TP-100.

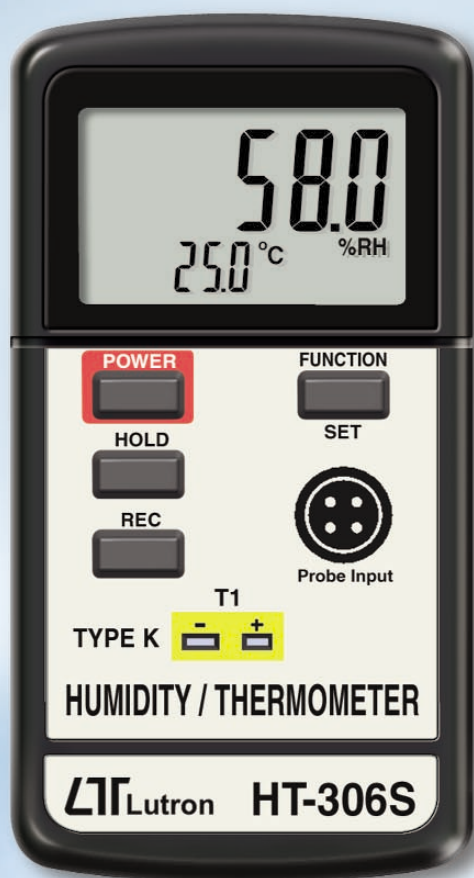


Clamp Temperature Probe

Model : TP-05

- * Clamp Type K Temp. probe, allows for hands-free super-heat (super-cooling) temperature measurement. The useful Temp. probe is ideal for pipe surface temperature, heating, ventilating, air conditioning, engine or cylinder circular tube.
- * Measurement range : -50 to 350 °C, -58 °F to 662 °F. Measuring Temp. within 121 to 350 °C, it only can bear 30 seconds only.
- * Accuracy : 2.5 °C, 4.5 °F.
- * Spring-loaded jaw for secure grip for pipe size from 3 mm to 48 mm diameter.
- * Cooperate with any Thermometers built-in Type K thermocouple input .
- * Cable length : 2 meters coiled cable.

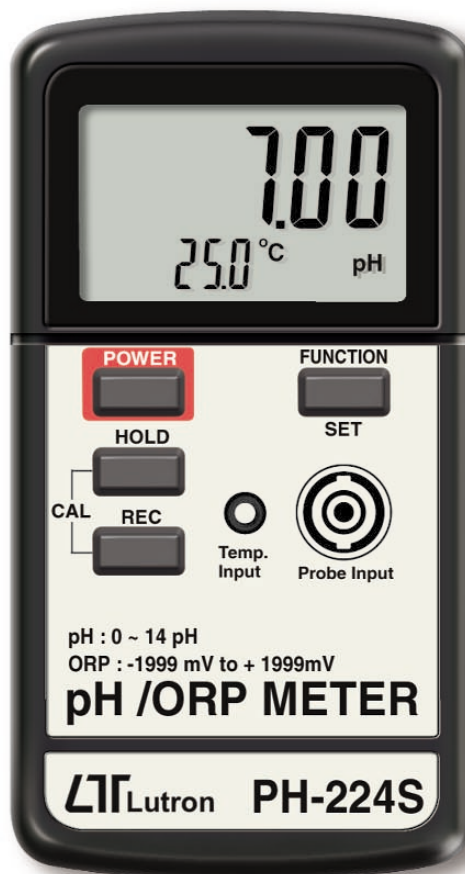




**%RH/Temp., Type K Temp, 4 in 1
HUMIDITY/THERMOMETER**

Model : HT-306S

- * Measurement : Humidity/Temp., Type K Temp., Dew point Temp., Wet bulb Temp.
- * Pocket and compact housing case.
- * Humidity sensor with Fast response time.
- * Humidity/Temp. measurement with separate probe.
- * Humidity : 10 to 95 %RH , Temp. : 0 to 50 °C. Resolution : 0.1 %RH, 0.1 degree.
- * Type K Temp. : -199.9 to 1300 °C, °C/°F. Resolution : 0.1 degree.
- * Hold button, REC button (Max./Min. button).
- * Power : DC 9V battery (006P).
- * Power supply : Optional Type K Temp. probes : TP-01, TP-02A, TP-03, TP-04, TP-05.



**pH, mV, auto Temp. Cal.
pH/ORP METER**

Model : PH-224S

- * Measurement : pH, mV (ORP), Temp. (via ATC Temp. probe)
- * pH : 0 to 14.00 pH
- * mV (ORP) : ±1,999 mV.
- * Temp. (via ATC Temp. probe) : 0 to 65 °C, °C/°F.
- * LCD shows both pH and the temperature.
- * ATC or manual Temp. compensation.
- * Auto calibration for pH 4, pH 7 and pH 10.
- * Hold button, REC button (Max./Min. button).
- * Power : DC 9V battery (006P).
- * Optional pH electrode : PE-03, PE-11, PE-02, PE-08, PE-21, PE-06HDA, PE-04HD. PE-03K7
- * Optional ATC probe, TP-07
- * Optional ORP electrode, ORP-14.
- * Optional pH buffer solution : PH-07, PH-04.



PH Electrode
(optional)

AC/DC Magnetic Precision Milligauss



Precision AC/DC MAGNETIC METER PRECISION MILLI GAUSS METER

Model : GU-3001

- * Precision magnetic measurement, use the high sensitivity gauss sensor, it can detect the magnetic fields as small as less than 1 milligauss.
- * Measurement : mG (milli Gauss), uT (micro Tesla).
- * Wide measure range : $\pm 3,000$ milligauss.
- * DC/AC magnetic measurement.
- * Resolution : 0.1 mG/1 mG, 0.01 uT/0.1 uT.
- * Sensor : High sensitivity gauss sensor.
- * Data hold. Record (Max., Min.).
- * RS232/USB computer interface.
- * 1.5 V battery (UM-4/AAA) x 6 PCs or DC 9V adapter.
- * Optional USB cable, USB-01.
- * Optional acquisition softwares, SW-U801-WIN, SW-E802.
- * Wide applications for industrial, mechanical, material, electrical, laboratory field to check the material's contained magnetic field value.

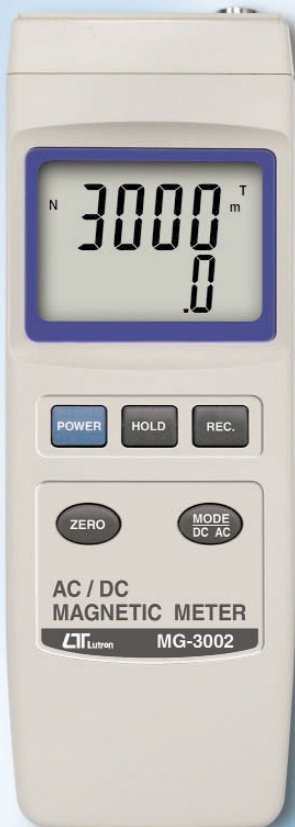


SD Card real time data recorder AC/DC MAGNETIC METER

Model : MG-3003SD

- * Real time data logger, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * Wide range, general purpose magnetic measurement.
- * Unit : G (Gauss), mT (milli Tesla).
- * DC or AC magnetic measurement.
- * DC magnetic range : 300.00 mT, 3000.0 mT.
- * AC magnetic range : 150.00 mT, 1500.0 mT.

- * Resolution : 0.01 mT/0.1 mT, 0.1 G/1 G.
- * DC polarity : N/S (north/south pole).
- * Sensor : Hall sensor.
- * Zero, Data hold. Record (Max., Min.).
- * RS232/USB computer interface.
- * Optional USB cable, USB-01.
- * Optional acquisition softwares, SW-U801-WIN, SW-E802.
- * Patented.



Wide range, general purpose AC/DC MAGNETIC METER

Model : MG-3002

- * Wide range, general purpose magnetic measurement.
- * Unit : G (Gauss), mT (milli Tesla).
- * DC/AC magnetic measurement.
- * DC Range : 300.00 mT/3000.0 mT.
- * AC Range : 150.00 mT/1500.0 mT.
- * Resolution : 0.01 mT/0.1 mT, 0.1 G/1 G.
- * DC polarity : N/S.
- * Sensor : Hall sensor.
- * Zero, Data hold. Record (Max., Min.).
- * RS232/USB computer interface.
- * DC 9V battery (006 P) x 1 PC or DC 9V adapter.
- * Optional USB cable, USB-01.
- * Optional acquisition softwares, SW-U801-WIN, SW-E802.

Pen type DC/AC MAGNETIC METER Model : PMG-302

- * Pen type, general purpose magnetic measurement.
- * Unit : G (Gauss), mT (milli Tesla).
- * DC/AC magnetic measurement.
- * DC Range (auto range) : 300.00 mT/3000.0 mT.
- * AC Range (auto range) : 150.00 mT/1500.0 mT.
- * Resolution : 0.01 mT/0.1 mT, 0.1 G/1 G.
- * DC polarity : N/S.
- * Sensor : Hall sensor.
- * Zero, Data hold.
- * Power : DC 1.5V (UM-4, AAA) X 4 PCs.



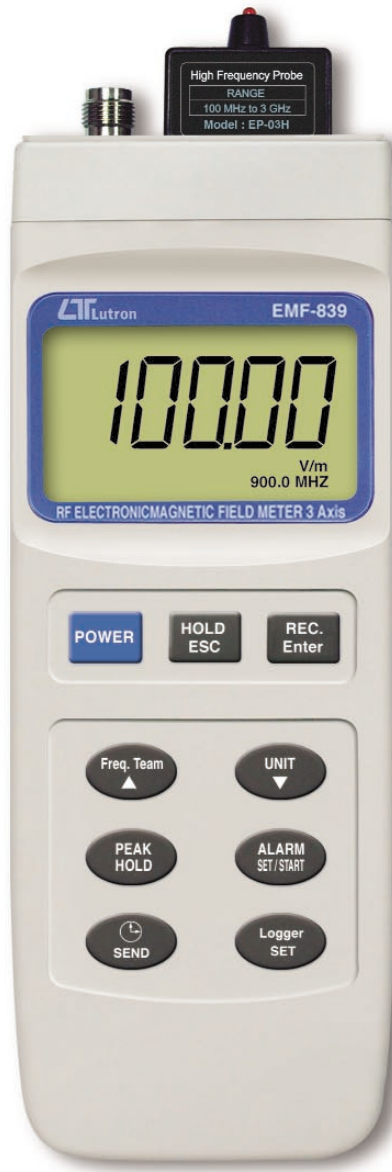
RF (Radio frequency) Electromagnetic field meter



50 MHz to 3 GHz, general purpose, one probe 3 Axis RF Electromagnetic Field Meter

Model : EMF-819

- * 3 Axis RF EMF tester, general purpose application.
- * Frequency range up to 3 GHz, for monitoring the wide range radio frequency EMF value or detect the micro wave leakage.
- * Measuring range : 0 to 199.99 V/m,
0 to 99.999 W/m²
0 to 9.9999 mW/cm²
- * Data hold, Peak hold. Record (Max., Min. value).
- * Frequency Probe, EP-05H is included .
- * Hard carrying case is included..
- * RS232/USB computer interface.
- * Large size LCD, Microcomputer circuit.
- * Powered by DC 9V battery or DC 9V adapter.
- * Optional data Acquisition software, SW-U801-WIN.
- * Optional Excel data Acquisition software, SW-E802.
- * Optional USB cable, USB-01.



100 KHz to 3 GHz, 2 probes, professional 3 Axis RF Electromagnetic Field Meter

Model : EMF-839

- * 3 axis probe structure, professional RF frequency electromagnetic field tester.
- * Frequency range : 100 KHz to 3 GHz.
- * Unit : V/m, W/m², mW/cm².
- * Measuring range :
0 to 199.99 V/m,
0 to 99.999 W/m²,
0 to 9.9999 mW/cm²
- * Probe 1 (low frequency probe) :
100 KHz to 100 MHz, Model EP-04L.
- * Probe 2 (high frequency probe) :
100 MHz to 3 GHz, Model EP-03H.
- * Data hold, peak hold.
- * Record (Max., Min. value).
- * Peak hold function to latch peak value.

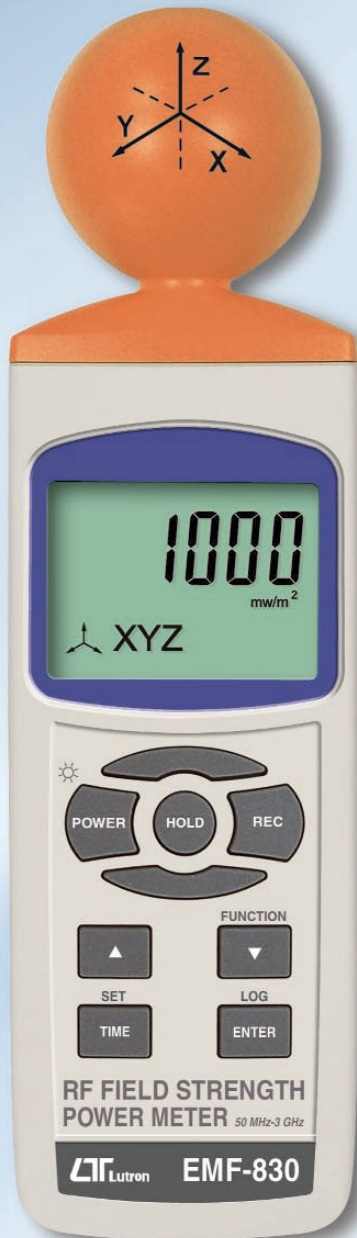
- * Data hold function to lock the current reading.
- * RS232/USB computer interface.
- * Real time data logger, built-in clock (hour-min.-sec., year-month-date).
- * Auto or manual data record, 16,000 Data logger no.
- * Alarm value setting.
- * Complete set with two probes, EP-04L, EP-03H and hard carrying case.
- * Applications :
EMF-839 is a professional RF EMF tester, used for broadband devices of monitoring high frequency radiation in the range electromagnetic field strength measurement of the micro wave leakage...
- * Optional data Acquisition software, SW-U801-WIN.
- * Optional Excel data Acquisition software, SW-E802.
- * Optional USB cable, USB-01.



EP-03H
High frequency probe
100 MHz to 3 GHz

EP-04L
Low frequency probe
100 KHz to 100 MHz

**Radio frequency
Field strength power meter
SD card data recorder** SERIES

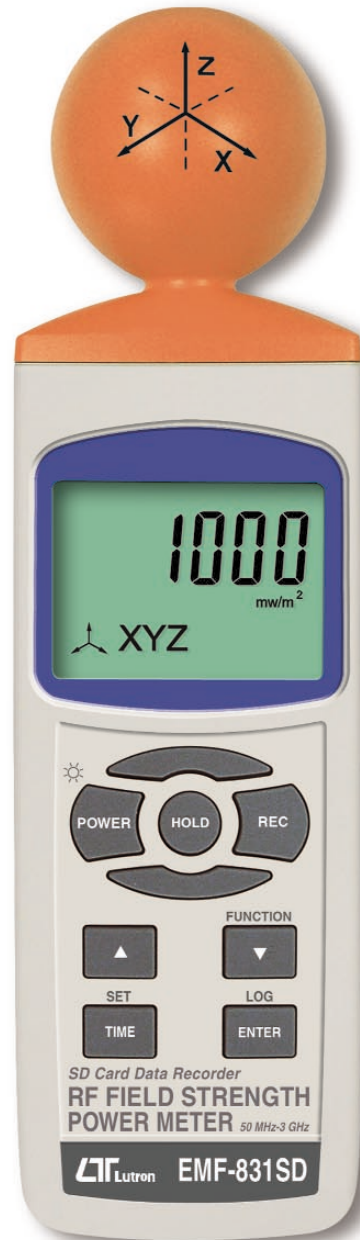


High sensitivity

RF FIELD STRENGTH POWER METER

Model : EMF-830

- * Radio field strength power measurements : GSM, CDMA, TDMA, WiFi, WiMAX Bluetooth, Security system, cordless phones, Zigbee....
- * Frequency range : Wide band, 50 MHz to 3 GHz.
- * Sensitivity : -55 dBm to 0 dBm.
- * Measuring units : mV/m, V/m, uA/m, mA/m, uW/m², mW/m², W/m², uW/cm², mW/cm².
- * Backlight graphics dot matrix LCD with 4 function screen.
- * Beeper will sound for warning if measuring data are over the alert value.
- * Power supply : DC 1.5 V battery (UM4/AAA) x 6 PCs or DC 9V adapter input.
- * Optional data Acquisition softwares, SW-U801-WIN, SW-E802.
- * Optional USB cable, USB-01.



SD Card Data Recorder

High sensitivity

RF FIELD STRENGTH POWER METER

Model : EMF-831SD

- * Real time recorder, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * Radio field strength power measurements : GSM, CDMA, TDMA, WiFi, WiMAX Bluetooth, security system, cordless phones, Zigbee....
- * Frequency range : Wide band, 50 MHz to 3 GHz.
- * Sensitivity : -55 dBm to 0 dBm.
- * Measuring units : mV/m, V/m, uA/m, mA/m, uW/m², mW/m², W/m², uW/cm², mW/cm².
- * Backlight graphics dot matrix LCD with 4 function screens, digital and bar-graph display with warning symbol.
- * Beeper will sound for warning if measuring data are over the alert value.
- * Power supply : DC 1.5 V battery (UM3/AA) x 6 PCs or DC 9V adapter input.
- * Optional data Acquisition softwares, SW-U801-WIN, SW-E802.
- * Optional USB cable, USB-01.



EMF TESTER

Model : EMF-832

- * The EMF tester is designed to provide user a quick, reliable and easy way to measure electromagnetic field radiation levels around power lines, home appliances and industrial devices.
- * Units : mG (milli-Gauss), micro Tesla.
- * Measurement ranges :
200 /2,000 /20,000 mG.
20/200/2,000 micro Tesla.
- * EMF Band width 30 Hz to 300 Hz.
- * LCD with green color backlight, easy read on the dark environment.
- * Data hold, auto power off.
- * Power : 006P DC 9V battery.



MICRO WAVE LEAKAGE DETECTOR

Model : EMF-810

- * Operating frequency range : 2.45 GHz \pm 50 MHz.
- * Measurement range : 0 to 1.999 mW/cm².
- * Peak hold function is used to latch the max. measuring value.
- * Buzzer will sound if the measuring value >1 mW/cm².
- * LCD Display, easy readout.
- * Application for measuring the EMF value of microwave frequency precisely.
- * Useful equipment to detect the leakage of micro wave oven.

Precision Hygrometer Sound level + Environment



%RH, Wet bulb, Dew point, Temp., type K/J Temp.

PRECISION HYGROMETER

Model : HT-3017

- * High precision hygrometer, measurement :
- * Humidity (%RH), Wet bulb Temp., Dew point Temp., Temperature value at the same time and show all the 4 kind reading value in the same LCD.
- * Humidity, %RH : 10 to 95 %RH.
- * Type K Thermometer :
-100 to 1300 °C, °C/°F.
- * Type J Thermometer :
-100 to 1200 °C, °C/°F.
- * High resolution :
Humidity : 0.01 %RH,
Temp. : 0.01 °C/°F.
- * Humidity/Temp. : 0 to 50.0 °C, °C/°F.
- * Data hold, Record (Max., Min.).
- * Optional type K Temp. probes :
TP-01, TP-02A, TP-03, TP-04, TP-05.
- * RS232/USB computer interface.
- * Send the four measuring data out at the same batch.



SOUND LEVEL METER

auto range +Type K/J Thermometer, optional Humidity, Light, Anemometer

Model : SL-4112P (with EM-910P)

- * 30-130 dB, auto range, manual range.
- * Frequency and time weighting meet IEC 61672 class 2.
- * A or C frequency weighting.
- * Fast/Slow time weighting, peak hold.
- * Data hold, Record (max., min.).
- * AC output, RS232/USB interface.
- * Data logger.
- * Optional data transmission software, SW-E2005, SW-DL2005.
- * Type K Temp. : -100 to 1300 °C, °C/°F.
- * Type J Temp. : -100 to 1100 °C, °C/°F.



EM-910P (for SL-4112P)

- * Optional type K Temp. probes :
TP-01, TP-02A, TP-03, TP-04, TP-05.
- * DC 1.5V battery (UM-4/AAA) x 6 or DC 9V adapter in.
- * Optional wind shield ball, SB-01.
- * Optional USB cable, USB-01.
- * Optional data acquisition softwares, SW-U801-WIN, SW-E802.
- * EM-910P probe : Humidity/Temp., Light and Anemometer.
- * EM-910P probe is the standard probe for SL-4112P.

Humidity content SERIES



SD Card real time data recorder

HUMIDITY CONTENT METER, + type K/J Temp.

Model : MS-7012SD

- * Complete set, meter + humidity probe (MS-71P).
- * Stainless Humidity content probe, used to measure the humidity content value for the materials of Grain, Corn, Rice, Cotton, Paper...
- * Function : Humidity content, Temp., Dew point, Wet bulb, Type K/J Thermometer.
- * Real time data logger, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * Humidity content : 5 to 95 %RH.
- * Humidity/Temp. : 0 to 50.0 °C, °C/°F.
- * Dew point Temp., Wet bulb Temp..
- * Type K Thermometer : -100 to 1300 °C, °C/°F.
- * Type J Thermometer : -100 to 1200 °C, °C/°F.
- * Thin-film capacitance sensor for humidity content measurement.
- * Data hold, Record (Max., Min.).
- * RS232/USB computer interface.
- * Humidity content probe (MS-71P) size : 10 mm Dia. x 600 mm length.



HUMIDITY CONTENT METER, + type K Temp.

Model : MS-7011

- * Complete set, meter + humidity probe (MS-71P).
- * Stainless Humidity content probe, used to measure the humidity content value for the materials of Grain, Corn, Rice, Cotton, Paper...
- * Function : Humidity content , Dew point, Type K Thermometer.
- * Humidity content : 10 to 95 %RH.
- * Type K Temp. : -100.0 to 1300.0 °C
- * Thin-film capacitance sensor for humidity content measurement.
- * Data hold, Record (Max., Min.).
- * RS232/USB computer interface.
- * Humidity content probe (MS-71P) size : 10 mm Dia. x 600 mm length.



HUMIDITY CONTENT PROBE

Model : MS-71P

- * Standard probe (included) for MS-7011, MS-7012SD
- * Dimension : 10 mm Dia. x 600 mm length.

Precision, Professional
Pure water, Hardness
Mini vane Anemometer



Mini vane
Air flow (CMM, CFM)
ANEMOMETER, + type K/J Temp.
Model : AM-4232

- * Mini vane with 35mm Dia., low-friction ball bearing mounted wheel design provides high accuracy at high and low air velocity.
- * Telescope Probe extension length 620 mm max.
- * Replacement anemometer van set,.
- * Air velocity/Temp. measurement, professional.
- * 0.4 to 20.0 m/s, ft/min., km/h. knots, mile/h.
- * Air flow : CMM, CFM.
- * Low friction ball-bearing vane.
- * Separate probe, high reliability.
- * Type K Thermometer :
 -100 to 1300 °C, °C/°F.
- * Type J Thermometer :
 -100 to 1200 °C, °C/°F.
- * Data hold, Record (Max., Min.).
- * RS232/USB computer interface.

20uS/200uS/2mS/20mS/200mS, Resistivity meter
WATER HARDNESS/PURE WATER METER

Model : CD-4309

- * Function : Conductivity ,TDS, Salt, Temp, Hardness.
- * High conductivity resolution, 5 ranges : 20 uS x 0.01 uS, 200 uS x 0.1 uS, 2 mS x 0.001 mS, 20 mS x 0.01 mS, 200 mS x 0.1 mS.
- * Resistivity, 5 ranges :
 100 MΩ-cm, 10 MΩ-cm, 1 MΩ-cm, 100 KΩ-cm, 10 KΩ-cm.
- * TDS, 5 ranges :
 20/200/2,000/20,000/ 200,000 ppm.
- * Hardness, 5 ranges :
 10/100/1,000/ 10,000/100,000 ppm.
- * Pt glass electrode, high performance for pure water low conductivity measurement.
- * Automatic temp compensation.
- * It can select Temp. Coefficient of measurement solution.
- * Record (Max ,Min) Data hold, zero adjust.
- * Dot matrix LCD display.
- * Power by UM3/AA (1.5V) x 6 batteries or DC 9V adapter.
- * RS232/USB computer interface.

Pen type meter

CO, O₂, pH, UV, VB SERIES



O₂ METER, pen type

Model : PO2-250

- * O₂ (Oxygen in air), Temperature.
- * O₂ range : 0 to 30.0 % x 0.1 %.
- * Temperature. : 0 to 50 °C, °C/°F.
- * Measurement response time : 30 seconds.
- * Pen type, easy operation and carryout.
- * DC 1.5V battery (UM-4/AAA) x 4 PCs.
- * Pen type easy carryout.



PEN VIBRATION METER

Model : PVB-820

- * Functions : Acceleration, Velocity.
- * Acceleration : 200 m/s², 20.00 G.
- * Velocity : 200 mm/s, 20.00 cm/s.
- * Frequency : 10 Hz to 1 KHz.
- * Data hold.
- * Meet ISO2954.
- * DC 1.5 V battery (UM-4/AAA) x 4 PCs.
- * Pen type easy carryout.



CO METER, pen type

Model : PCO-350

- * CO (Carbon monoxide), Temperature.
- * CO range : 0 to 1,000 ppm.
- * Temperature. : 0 to 50 °C, °C/°F.
- * CO response time : 30 seconds.
- * Data hold.
- * Alarm beeper.
- * DC 1.5V battery (UM-4/AAA) x 4 PCs.
- * Pen type easy carryout.

UV METER, Pen type

Model : PUV-360

- * Spectrum : 290 nm to 390 nm
- * UVA & UVB measurement.
- * Calibration is under UVA standard light (black light).
- * 2 ranges :
 - 2 mW/cm² x 0.001 mW/cm².
 - 20 mW/cm² x 0.01 mW/cm².
- * Data hold, Record (Max., Min.).
- * Power : DC 1.5V (UM-4/AAA) X 4 PCs.
- * Pen type easy carryout.





Pen type pH, magnetic tester Pure water/Hardness

Pen type PURE WATER/HARDNESS METER

Model : PWH-303

- * Separate Pt glass electrode, high performance for pure water low conductivity measurement.
- * Measurement water conductivity : 0 to 1999 uS .
- * Measurement water hardness : 0 to 1000 ppm.
- * Separate Meter with the probe, easy operation.
- * Hold , Record (max., min.).
- * DC 1.5V battery (UM-4/AAA) x 4.
- * Water conditioning , aquarium , food processing, photography , school ,laboratory, industrial and quality control.

build ATC sensor, 0.01 pH resolution PEN pH METER

Model : PH-223

- * 0 to 14.00 pH x 0.01 pH.
- * ATC (auto temperature compensation).
- * Calibration for pH 4, pH 7 or pH 10.
- * Meter with pH electrode, all in one.
- * IP-67, water proof.
- * Easy replacement for the pH electrode.
- * Pen type, easy operation carry out.
- * pH 4, pH 7 standard solutions are included.
- * DC 1.5V battery (UM-4/AAA) x 4 PCs.



economic type, 0.1 pH, ATC PEN pH METER

Model : PH-224

- * 1.0 to 14.0 pH x 0.01 pH.
- * 0.01 display resolution.
- * ATC (auto temperature compensation).
- * Calibration point : pH 4, pH 7 or pH 10.
- * Meter with pH electrode, all in one.
- * IP-67, water proof.
- * Easy replacement for the pH electrode.
- * Pen type, easy operation carry out.
- * pH 4, pH 7 standard solutions are included.
- * DC 1.5V battery (UM-4/AAA) x 4 PCs.

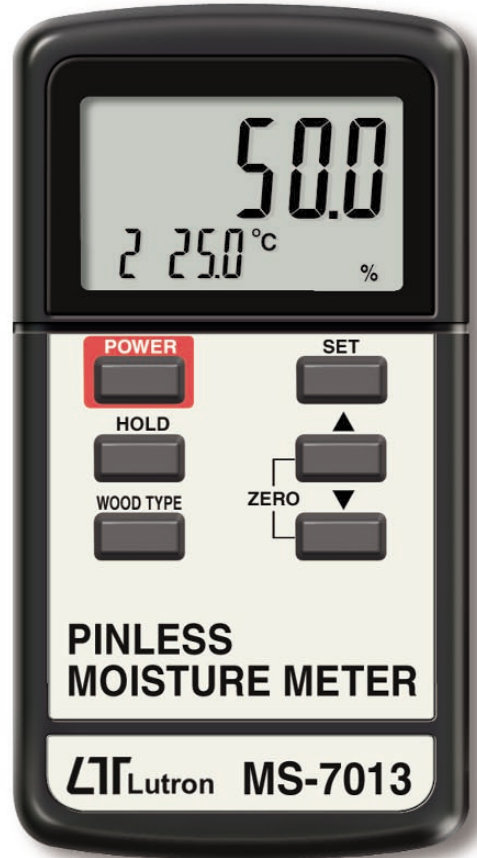


Pen type DC/AC MAGNETIC METER

Model : PMG-302

- * Pen type, general purpose magnetic measurement.
- * Units : G (Gauss), mT (milli Tesla).
- * DC/AC magnetic measurement.
- * DC Range (auto range) : 300.00 mT/3000.0 mT.
- * AC Range (auto range) : 150.00 mT/1500.0 mT.
- * Resolution : 0.01 mT/0.1 mT, 0.1 G/1 G.
- * DC polarity : N/S.
- * Sensor : Hall sensor.
- * Zero, Data hold.
- * Power : DC 1.5V (UM-4, AAA) X 4 PCs.

Pinless Moisture meter Elevator Tachometer



ELEVATOR TACHOMETER

Model : DT-2337

- * Multi-functions elevator tachometer.
- * Photo Tach :
6 to 99,999 RPM , 0.10 ~ 1666.7 rev/s.
- * Contact Tach : 0.5 to 19,999 RPM.
- * Surface speed :
rev/s, m/min, ft/min, in/min, cm/s, m/s, km, m, km/h.
- * Stroboscope : 100 to 99,990 RPM/FPM.
- * Type K thermometer (Optional type K probes) :
-100.0 to 1300.0 °C.
- * Pt 1000 ohm Temp. (Optional probe, TP-1000) :
-10 to 70 °C.
- * Hold Function to freeze display button.
- * Fast sampling time for contact RPM measurement, automatic reverse display.
- * Size : 207 x 67 x 39 mm.
- * DC 1.5 V battery (UM-3 AA) x 4.

pinless WOOD MOISTURE

Model : MS-7013

- * Pinless Wood moisture measurement.
- * Wood density selection (8 Kinds Wood density group Type).
- * moisture range : 0 to 50%
- * Temperature range : 0 to 50 °C.
- * Unit : °C, °F internal setting.
- * Meter is built-in scan sensing part, easy operation.
- * Hold Function to freeze display button.
- * Size : 131 x 70 x 25 mm.
- * Power supply : DC 9V battery (006P, MIN1604).



TURBIDITY METER

Model : TU-2016

- * Range : Auto range, two ranges, 0.00 to 50.00 NTU, 50 to 1,000 NTU.
- * Resolution : 0.01 NTU/1 NTU.
- * Accuracy :
0.00 to 49.99 NTU :
 $\pm 5\%$ reading or ± 0.5 NTU.
50 to 1000 NTU :
 $\pm 5\%$ reading or ± 5 NTU.
- * NTU (Nephelometric TURBIDITY Unit) measuring unit.
- * The unique optics structure, enables the instrument to read TURBIDITY from low value to the high level up to 1,000 NTU.
- * Jumbo LCD, easy readout.
- * Light source : LED, 850 nm.
- * Record (Max., Min.), Data hold.
- * Power : 1.5 V battery (UM-4/AAA) x 6 PCs.
- * 0 NTU and 100 NTU Calibration solutions are included.
- * Designed to meet ISO 7027.
- * RS232/USB model is available with requesting.
- * Applications : Test municipal water, food and beverage water, or other aqueous solutions which fluid clarity is important.



Free and Total CHLORINE METER

Model : CL-2006

- * Free chlorine, total Chlorine measurement.
- * Range : 0 to 3.5 ppm (mg/L).
- * Range : Auto range.
- * Measuring principal : Photo meter method.
- * Light source : LED, 525 nm.
- * Splash waterproof on the front panel.
- * Jumbo LCD, easy readout.
- * Record (Max., Min.), Data hold.
- * 1.00 ppm Free and Total standard solutions are included, easy calibration.
- * 10 PCs Free and Total powder DPD are included.
- * The measuring method is an adaptation of the USEPA Method 330.5 for waste water and Standard Method 4500-Cl G for drinking water.
- * Power : 1.5 V battery (UM-4/AAA) x 6 PCs.
- * Applications : Test swimming pool, municipal water, food and beverage water, or other aqueous solutions.



CD/TDS/Salt
CDPB-03
(included)



CD/TDS/Salt
Pt probe
CDPB-04
(optional)

pH electrode
PE-03
PE-11
PE-01
PE-02
PE-08
PE-06HDA
PE-04HD
(optional)



DO probe
OXPB-11
(optional)



pH ATC probe
TP-07
(optional)

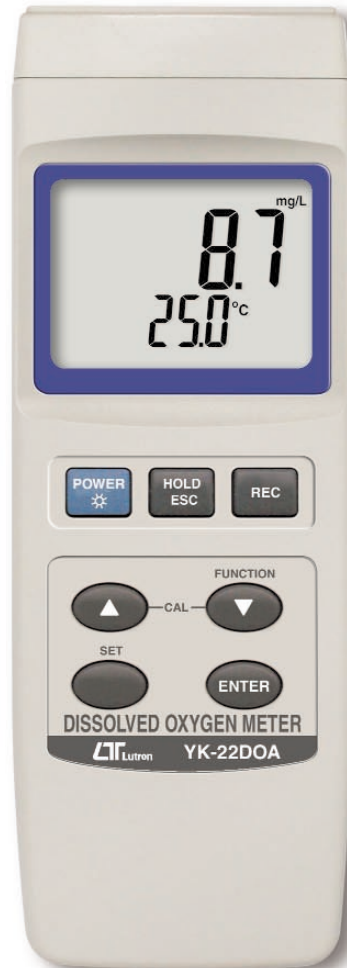


pH METER

Model : YK-2001PHA

- * One meter for multi purpose operation :
pH/ORP, CD/TDS, Dissolved Oxygen, Salt measurement.
- * pH : 0 to 14.00 pH, ORP : ± 1999 mV.
- * Conductivity : 200 μ S/2 mS/20 mS/200 mS.
- * Dissolved oxygen : 0 to 20.0 mg/L.
- * Salt : 0 to 12 % salt (% weight).
- * CD/TDS/Salt probe is included.
- * Optional PH, ORP, Dissolved Oxygen and pH ATC probe.
- * pH measurement can select ATC or manual temperature adjustment.
- * pH measurement can make the auto calibration.
- * Conductivity measurement can select Temp. Coefficient of measurement solution.
- * ATC for the conductivity measurement.
- * Dissolved oxygen meter use the polar graphic type oxygen probe with temperature sensor, high precision measurement.
- * Power by DC 9V (006 P) battery or DC 9V adapter in.
- * RS232/USB computer interface.

Conductivity, TDS, Salt Dissolved Oxygen



Conductivity, TDS, Salt CONDUCTIVITY METER

Model : YK-22CTA

- * One meter for one purpose operation :
CD, TDS, Salt measurement.
- * Conductivity : 200 uS/2 mS/20 mS/200 mS.
- * Salt : 0 to 12 % salt (% weight).
- * Conductivity measurement can select Temp.
Coefficient of measurement solution.
- * ATC for the conductivity measurement.
- * LCD with green light backlight, easy reading.
- * Can default auto power off or manual power
off.
- * Data hold, record max. and min. reading.
- * Power by DC 9V (006 P) battery or DC 9V
adapter in.
- * RS232/USB PC COMPUTER interface.

DISSOLVED OXYGEN METER

Model : YK-22DOA

- * Dissolved oxygen : 0 to 20.0 mg/L.
- * Dissolved oxygen meter use the polar graphic type
oxygen probe with temperature sensor, high precision
- * Heavy duty dissolved oxygen probe, probe head can
connect with BOD bottle.
- * DO use the automatic Temp. compensation.
- * DO meter build in " % SALT " & " Mountain Height "
compensation value adjustment.
- * LCD with green light backlight, easy reading.
- * Can default auto power off or manual power off.
- * Data hold, record max. and min. reading.
- * Power by DC 9V (006 P) battery or DC 9V adapter in.
- * RS232/USB PC COMPUTER interface.

Gasoline Tachometer, Carrying case pH Electrode, Clamp Temp. probe



GASOLINE TACHOMETER

Model : DT-2237A

- * Non-contact engine RPM measuring.
- * Available for the automobile engine, motorcycle engine, generator engine. 4-cycle & 2-cycle selecting switches, available for the automobile engine, motorcycle engine, generator engine...
- * Secondary tach. measuring method, no matter what cylinder is.
- * 10 to 40,000 RPM x 1 RPM, 0.05% accuracy.
- * Memory (Max., Min., Last value).
- * High precision gasoline engine RPM measurement, measurement is just to clamp the inductive pick up sensor (IP-09 included) to the high tension wire.

Clamp Temperature Probe

Model : TP-05

- * Clamp Type K Temp. probe, allows for hands-free super-heat (super-cooling) temperature measurement. The useful Temp. probe is ideal for pipe surface temperature, heating, ventilating, air conditioning, engine or cylinder circular tube.
- * Measurement range :
-50 to 350 °C, -58 °F to 662 °F.
Measuring Temp. within 121 to 350 °C, it only can bear 30 seconds only.
- * Accuracy : 2.5 °C, 4.5 °F.
- * Spring-loaded jaw for secure grip for pipe size from 3 mm to 48 mm diameter.
- * Cooperate with any Thermometers built-in Type K thermocouple input .
- * Cable length : 2 meters coiled cable.



glass body

PLANE pH ELECTRODE

Model : PE-08

- * Professional plane pH electrode, application for Laboratory, high quality & field usage, such as skin, food... pH measurement.
- * 0 to 14 pH.
- * Glass body with BNC connector.
- * Size : 15 mm Dia. x 137.5 mm.



glass body

HEAVY DUTY pH ELECTRODE

Model : PE-02

- * Glass body heavy duty and long life pH electrode.
- * Professional, Laboratory, high quality & field usage.
- * 0 to 14 pH.
- * BNC connector.
- * Size : 15 mm Dia. x 150 mm.



HARD CARRYING CASE

Model : CA-08

- * Large hard carrying case.
- * Size : 370 x 310 x 115 mm
- * ABS plastic housing.

Digital Synthesis

digital synthesis, high intensity light STROBOSCOPE

Model : DT-2349

- * New generation Stroboscope.
- * Digital synthesis circuit, high stability and easy adjustment.
- * Range : 60 to 32,000 RPM.
- * Adjustment resolution : 0.1 RPM/1 RPM.
- * High intensity light.
- * Setting buttons : digital adjusting button, x 2 button, ÷2 button, + button, - button, easy to adjust the desired RPM.
- * ACV Power supply : ACV (100V to 240V) to DC 9V (3A) adapter, power adapter is included.
- * DCV Power supply : Built-in battery compartment, power can use the DC 1.2 V Ni-MH recharged battery (UM-1/D size) x 4 PCs which are not included.



Digital Synthesis



digital synthesis, high intensity light STROBOSCOPE

Model : DT-2249A (AC 110V)

Model : DT-2249A (AC 220V)

Model : DT-2249A (AC 230 V)

- * New generation Stroboscope.
- * Digital synthesis circuit, high stability and high adjustment resolution.
- * Range : 60 to 30,000 RPM.
- * Adjustment resolution : 0.1 RPM (<1,000 RPM), 1 RPM (≥1,000 RPM)
- * High intensity light.
- * Setting buttons : digital adjusting button, x 2 button, ÷2 button, + button, - button, easy to adjust the desired RPM.
- * Power supply (ACV only) : DT-2249A (AC 110V) : AC 110V, 50/60 Hz. DT-2249A (AC 220V) : AC 220V, 50/60 Hz. DT-2249A (AC 230V) : AC 230V, 50/60 Hz.



Manometer, Rotation Tester pH Monitor, 600 g balance



600 g x 0.01 g, high precision DIGITAL BALANCE

Model : GM-610P

- * High precision balance.
- * Capacity : 600 g x 0.01 g.
- * Units : gram, oz.
- * Auto self-calibration, counting function.
- * RS-232/USB computer interface.
- * 6 x 1.5V UM-3 batteries or AC adapter.
- * Platform size : round, 120 mm Dia.
- * Optional data Acquisition software, SW-U801-WIN, SW-E802.
- * Optional USB cable, USB-01.

200 mbar, differential input MANOMETER

Model : PM-9102

- * Dual & differential input, 200 mbar x 0.1 mbar.
- * Units : mbar, PSI, Kg/cm², inch/Hg, mm/Hg, inch/H₂O, meter/H₂O, Atmosphere.
- * Data hold, Memory (Max., Min.).
- * RS232/USB computer interface.
- * Applications : Industrial, laboratory, schools, heating, ventilation, hospital, medical...
- * Size : 180 x 72 x 32 mm.

2000 mbar, differential input MANOMETER

Model : PM-9100

- * Same function as PM-9102 but the max. range is 2000 mbar instead of 200 mbar.

7000 mbar, differential input MANOMETER

Model : PM-9107

- * Same function as PM-9102 but the max. range is 7000 mbar instead of 200 mbar.



LCD display 3 PHASE ROTATION TESTER

Model : RT-616

- * Large LCD display with backlight, easy to read under the strong light or the dark environment.
- * Electronic (not mechanical) rotation test, high reliability.
- * 3 phase rotation detector.
- * Input : 100 - 660 V AC, 45 to 70 Hz.
- * Custom one-chip of microprocessor circuit.
- * 3 heavy duty alligator clips are included.
- * Power supply : DC 9V 006P battery.

pH MONITOR

Model : PH-321M

- * 0 to 14.00 pH x 0.01 pH.
- * Accuracy : 0.1 pH (pH 4 to pH 10).
- * Auto calibration for pH 4, pH 7 or pH 10.
- * LCD display with backlight
- * Power supply : DC 9V adapter in.
- * Application : Aquarium or general purpose pH monitor usage.
- * pH electrodes (optional) : PE-01, PE-03, PE-11, PE-21.



Torque Wrench SERIES

**heavy duty, professional
Torque Wrench, 1000 Kg-cm**

Model : TQ-8803

- * Professional and Heavy duty torque wrench.
- * Range : 1000 Kgf-cm, 9,807 Newton-cm.
- * Units : Kgf-cm, lbf-in, lbf-ft, N-cm, N-m.
- * Auto data hold function to freeze the last measurement reading.
- * Size of square drive :
3/8 inch square (9.53 mm square).
- * LCD display with backlight, easy readout.
- * Auto shut off circuit to save battery life.
- * Microcomputer circuit, high performance.
- * Metallic heavy duty & compact housing case.
- * Size : 450 mm x 55 mm x 37 mm.
- * Power supply :
DC 1.5V battery (UM-4/AAA) X 4 PCs.
- * Soft carrying case is included.





LED LIGHT METER

Model : LX-114S

- * LED light meter measure White, Red, Yellow, Green, Blue, and Purple LED and Standard Lighting.
- * 2,000/20,000/50,000 Lux, auto range.
- * Units : Lux, Foot-Candle.
- * Light sensor used the exclusive photo diode & color correction filter, spectrum meet C.I.E. photopic.
- * Light sensor's cosine correction factor meet standard.
- * Separate Light Sensor allows user to measure the light at an optimum position.
- * Microcomputer circuit provides high accuracy.
- * Zero key function.
- * Power : DC 9V battery (006P).

SD Card real time recorder

LED LIGHT METER

Model : LX-1148SD

- * Real time data logger ,save the data into the SD memory card and can be downloaded the Excel, extra software is no need.
- * LED light meter measure White, Red, Yellow, Green, Blue, and Purple LED and Standard Lighting.
- * 2,000/20,000/50,000 Lux, auto range.
- * Units : Lux, Foot-Candle.
- * Light sensor used the exclusive photo diode & color correction filter, spectrum meet C.I.E. photopic.
- * Light sensor's cosine correction factor meet standard.
- * Separate Light Sensor allows user to measure the light at an optimum position.
- * SD card capacity : 1 GB to 16 GB.
- * Microcomputer circuit provides high accuracy.
- * Zero key function.
- * LCD with backlight, easy reading.
- * Data hold, record max. and min. reading.
- * Power by DC 1.5 V (UM-3) battery x 6 Pcs or DC 9V adapter in.
- * RS232/USB PC COMPUTER interface.

UV Light, UVA, UVC SERIES



UV LIGHT METER

Model : YK-35UV

- * Spectrum : 290 nm to 390 nm
- * Calibration is under UVA standard light.
- * 2 ranges :
 $2 \text{ mW/cm}^2 \times 0.001 \text{ mW/cm}^2$
 $20 \text{ mW/cm}^2 \times 0.01 \text{ mW/cm}^2$
- * Data hold, Record (Max., Min.).
- * RS232/USB computer interface.



UVC probe

UVA probe

SD Card real time data recorder

UVA, UVC LIGHT METER

Model : YK-37UVSD

- * Real time data logger, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * UVA, UVC light measurements.
- * Two UV probes (UVA, UVC) are included.
- * 2 ranges :
 $2 \text{ mW/cm}^2 \times 0.001 \text{ mW/cm}^2$
 $20 \text{ mW/cm}^2 \times 0.01 \text{ mW/cm}^2$
- * Data hold, Record (Max., Min.).
- * RS232/USB computer interface.
- * Patented.



UV LIGHT METER, pocket

Model : UV-340A

- * Spectrum : 290 nm to 390 nm
- * Calibration is under UVA standard light.
- * 2 ranges :
 $2 \text{ mW/cm}^2 \times 1 \text{ uW/cm}^2$
 $20 \text{ mW/cm}^2 \times 10 \text{ uW/cm}^2$
- * Pocket size separate probe.

UV METER, Pen type

Model : PUV-360

- * Spectrum : 290 nm to 390 nm
- * UVA & UVB measurement.
- * Calibration is under UVA standard light (black light).
- * 2 ranges :
 $2 \text{ mW/cm}^2 \times 0.001 \text{ mW/cm}^2$
 $20 \text{ mW/cm}^2 \times 0.01 \text{ mW/cm}^2$
- * Data hold, Record (Max., Min.).
- * Power : DC 1.5V (UM-4/AAA) X 4 PCs.
- * Pen type easy carryout.



UV Light, UVA, UVC

SERIES



**Professional, RS232
UVA LIGHT METER**

Model : UVA-365A

- * UVA Ultra-Violet radiometer.
- * 3 ranges :
 - 199.9 $\mu\text{W}/\text{cm}^2 \times 0.1 \mu\text{W}/\text{cm}^2$.
 - 1.999 $\text{mW}/\text{cm}^2 \times 0.001 \text{mW}/\text{cm}^2$.
 - 19.99 $\text{mW}/\text{cm}^2 \times 0.01 \text{mW}/\text{cm}^2$.
- * Professional UVA light sensor with metallic housing.
- * Data Hold.
- * RS232/USB computer interface.
- * Max., Min., Memory recall button.
- * Size : 180 x 72 x 32 mm.



**Professional, RS232
UVC LIGHT METER**

Model : UVC-254A

- * UVC Ultra-Violet radiometer.
- * 3 ranges :
 - 199.9 $\mu\text{W}/\text{cm}^2 \times 0.1 \mu\text{W}/\text{cm}^2$.
 - 1.999 $\text{mW}/\text{cm}^2 \times 0.001 \text{mW}/\text{cm}^2$.
 - 19.99 $\text{mW}/\text{cm}^2 \times 0.01 \text{mW}/\text{cm}^2$.
- * Professional UVC light sensor with metallic housing.
- * Data Hold.
- * RS232/USB computer interface.
- * Max., Min., Memory recall button.
- * Size : 180 x 72 x 32 mm.



**SD Card real time data recorder
+ type K/J thermometer
UVA LIGHT METER**

Model : UVA-365SD

- * Real time data logger, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * Professional UVA light measurement.
- * Metallic housing UVA probe.
- * 2 ranges :
 - 2 $\text{mW}/\text{cm}^2 \times 0.001 \text{mW}/\text{cm}^2$.
 - 20 $\text{mW}/\text{cm}^2 \times 0.01 \text{mW}/\text{cm}^2$.
- * Data hold, Record (Max., Min.).
- * RS232/USB computer interface.
- * Patented.

**SD Card real time data recorder
+ type K/J thermometer
UVC LIGHT METER**

Model : UVC-254SD

- * Real time data logger, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * Professional UVC light measurement.
- * Metallic housing UVC probe.
- * 2 ranges :
 - 2 $\text{mW}/\text{cm}^2 \times 0.001 \text{mW}/\text{cm}^2$.
 - 20 $\text{mW}/\text{cm}^2 \times 0.01 \text{mW}/\text{cm}^2$.
- * Data hold, Record (Max., Min.).
- * RS232/USB computer interface.
- * Patented.



CO₂ (Carbon dioxide)

SERIES

SD Card real time recorder, 6000 ppm

CO₂ METER + Humidity/Temp.

Model : CO2-9904SD

- * Real time recorder, save the data into the SD memory card and can be downloaded to the Excel, extra software is no need.
- * Measurement : CO₂ (Carbon dioxide), Humidity, Dew point, temperature
- * CO₂ range : 0 to 6,000 ppm x 1 ppm.
- * Humidity range : 10 to 95 %RH.
- * Dew point : -25.3 to 48.9 °C, °C/°F.
- * Temp. range : 0 to 50.0 °C, °C/°F.
- * CO₂ sensor : NDIR, long term reliability.
- * Humidity sensor : Precision capacitance sensor.

- * Alarm setting with the beeper sound output.
- * Sampling time for data recorder is 2 seconds to 8 hours.
- * 2 probes : CO₂ and Humidity probe.
- * Hard carrying case is included
- * Can use 1 GB to 16 GB SD card (optional).
- * RS232/USB computer interface.
- * Optional data Acquisition softwares, SW-U801-WIN, SW-E802.
- * Optional USB cable, USB-01.



CO₂ probe Humidity/
Temp. probe



CO₂ probe Humidity/
Temp. probe



CO₂ METER, + Humidity, Temperature.

Model : GCH-2018

- * Function : CO₂ (Carbon dioxide) Humidity, Dew point, Temp. (°C/°F)
- * CO₂ range : 0 to 4,000 ppm, max., 6000 ppm typically.
- * Humidity range : 10 to 95 % RH.
- * CO₂ sensor : NDIR, long term reliability.
- * CO₂ with alarm setting.
- * Data hold, Record (Max., Min.).
- * RS232/USB computer interface .
- * Optional data Acquisition softwares : SW-U801-WIN, SW-E802.
- * Optional USB cable, USB-01.



one probe, SD card real time recorder CO₂ METER, + Humidity/Temp.

Model : CO2-9914SD

- * One probe include the CO₂, Humidity, Temp..
- * SD card real time recorder.
- * Detail specifications, please refer to page 22.

CO₂ METER, Temperature.

GC-2028

- * CO₂ range : 0 to 4,000 ppm, max. 6000 ppm typically.
- * CO₂ sensor : NDIR, long term reliability.
- * CO₂ with alarm setting.
- * Functions : CO₂ (Carbon dioxide), Temp. (°C/°F)
- * Data hold, Record (Max., Min.).
- * RS232/USB computer interface.
- * Optional data Acquisition softwares : SW-U801-WIN, SW-E802.
- * Optional USB cable.



SD Card real time data logger CO₂/HUMIDITY/TEMP. DATA RECORDER

Model : MCH-383SD

- * Detail specifications, please refer to page 43.

CO (Carbon monoxide) O₂ (Air oxygen) SERIES



CO probe Humidity/
Temp. probe

SD Card real time recorder CO METER + Humidity/Temp. Model : COH-9902SD

- * Real time recorder, save the data into the SD memory card and can be downloaded to the Excel.
- * CO range : 0 to 1,000 ppm x 1 ppm.
- * Humidity range : 5 to 95 %RH.
- * Dew point : -25.3 to 48.9 °C, °C/°F.
- * Temp. range : 0 to 50.0 °C, °C/°F.
- * Alarm setting with the beeper sound output.
- * Recorder sampling time : 2 seconds to 8 hours.
- * 2 probes : CO and Humidity probe.
- * Hard carrying case is included
- * RS232/USB computer interface.



O₂ probe Humidity/
Temp. probe

SD Card real time recorder O₂ METER + Humidity/Temp. Model : O2H-9903SD

- * Real time recorder, save the data into the SD memory card and can be downloaded to the Excel.
- * O₂ range : 0 to 30.0 % x 0.1 %.
- * Humidity range : 5 to 95 %RH.
- * Dew point : -25.3 to 48.9 °C, °C/°F.
- * Temp. range : 0 to 50.0 °C, °C/°F.
- * Alarm setting with the beeper sound output.
- * Recorder sampling time : 2 seconds to 8 hours.
- * 2 probes : O₂ and Humidity probe.
- * Hard carrying case is included
- * RS232/USB computer interface.



CO METER

Model : GCO-2008

- * CO (Carbon monoxide), Temperature.
- * CO range : 0 to 1,000 ppm.
- * Temperature. : 0 to 50 °C, °C/°F.
- * CO response time : 30 second.
- * CO with alarm setting.
- * Data hold.
- * Record (Max., Min.).
- * RS232/USB computer interface.
- * 1.5 V battery (UM-4/AAA) x 6 PCs or DC 9V adapter in.



CO METER, pen type

Model : PCO-350

- * CO (Carbon monoxide), Temperature.
- * CO range : 0 to 1,000 ppm.
- * Temperature. : 0 to 50 °C, °C/°F.
- * CO response time : 30 seconds.
- * Alarm beeper.
- * Data hold.
- * DC 1.5V battery (UM-4/AAA) x 4.
- * Pen type, easy carryout.



O₂ METER, pen type

Model : PO2-250

- * O₂ (Oxygen in air), Temperature.
- * O₂ range : 0 to 30.0 % x 0.1 %.
- * Temperature. : 0 to 50 °C, °C/°F.
- * Measurement response time : 30 seconds.
- * DC 1.5V battery (UM-4/AAA) x 4.
- * Pen type, easy operation and carryout.

Heat index WBGT SERIES



HEAT INDEX WBGT METER

Model : WBGT-2010SD

- * WBGT (wet-bulb globe temperature) was developed as a monitoring basis at US military training camps and became widespread for the use in workplaces and sports situation It is suggested in the international standard ISO 7243, OSHA (US Occupation Safety), Japan Society for Occupational Health and the SMA (Sports Medicine Australia) to establish the permissible heat exposure limits in health, sports or other physical activities.
- * Measurements : WBGT value (Indoor/ Outdoor Wet bulb globe temperature), Black globe temperature, Humidity, Air temperature , Wet bulb temperature, Dew point Temp..
- * Measurement functions :
 1. Wet bulb globe temperature (WBGT),
Indoor : 0 °C to 59 °C.
Outdoor : 0 °C to 56 °C.
 2. Black globe Temp (TG) : 0 to 80 °C.
 3. Air temperature (TA) : 0 to 50 °C.
 4. Wet bulb temperature (WB) : -21.6 °C to 50.0 °C.
 5. Humidity : 5 % to 95 % R.H..
 6. Dew point Temp. : -25.3 °C to 48.9 °C.
- * Units : °C, °F, Resolution : 0.1 degree.
- * Adjustable WBGT alarm setting with buzzer sound output.
- * Control and monitor of physical activity in hot

- environment to limit the danger of heat related injuries.
- * Globe temperature measurement uses the Pt sensor, high accuracy.
- * Fast humidity measuring response time.
- * Direct measurement of the radiation effect with a brass black ball in 75 mm dia.
- * Real time SD memory card recorder, it is built-in Clock and Calendar.
- * Real time data recorder , sampling time set from 1 second to 3600 seconds.
- * Manual data record is available, can set the different position (location) No. (1 to 99).
- * Innovation and easy operation, computer is not need to setup extra software. After record the data, just take away the SD card from the meter and plug into the computer, the measured values with the time information (year/month/date/ hour/minute/second) can be downloaded to the Excel directly, then user can make the further data or graphic analysis by themselves.
- * SD card capacity : 1 GB to 16 GB.
- * Data hold, record max. and min. reading.
- * Power by UM3/AA (1.5 V) x 6 batteries or DC 9V adapter.
- * RS232/USB PC computer interface.
- * Complete set with the carrying case, SD card is optional.



Carrying case

HEAT INDEX WBGT METER

Model : WBGT-2009

- * WBGT (wet-bulb globe temperature) was developed as a monitoring basis at US military training camps and became widespread for the use in workplaces and sports situation It is suggested in the international standard ISO 7243, OSHA (US Occupation Safety), Japan Society for Occupational Health and the SMA (Sports Medicine Australia) to establish the permissible heat exposure limits in health, sports or other physical activities.
- * Measurements : WBGT value (Indoor/ Outdoor Wet bulb globe temperature), Black globe temperature, Humidity, Air temperature , Wet bulb temperature, Dew point Temp..
- * Measurement functions :
 1. Wet bulb globe temperature (WBGT),
Indoor : 0 °C to 59 °C.
Outdoor : 0 °C to 56 °C.
 2. Black globe Temp (TG) : 0 to 80 °C.
 3. Air temperature (TA) : 0 to 50 °C.
 4. Wet bulb temperature (WB) : -21.6 °C to 50.0 °C.

- 5. Humidity : 5 % to 95 % R.H..
- 6. Dew point Temp. : -25.3 °C to 48.9 °C.
- * Units : °C, °F, Resolution : 0.1 degree.
- * Adjustable WBGT alarm setting with buzzer sound output.
- * Control and monitor of physical activity in hot environment to limit the danger of heat related injuries.
- * Globe temperature measurement uses the Pt sensor, high accuracy.
- * Fast humidity measuring response time.
- * Direct measurement of the radiation effect with a brass black ball in 75 mm dia.
- * Data hold, record max. and min. reading.
- * Power by UM3/AA (1.5 V) x 6 batteries or DC 9V adapter.
- * RS232/USB PC computer interface.
- * Complete set with the carrying case.



Noise dosimeter SD card data recorder

Carrying case
(included)



Microphone with clip
(included)

compact size + data logger NOISE DOSIMETER

Model : DS-9200

- * Standards IEC61252, ANSI S1.25 for noise dose and sound exposure meters, IEC 61672 Class 2 / ANSI S1.4 Type S for sound level meters.
- * A or C frequency weighting.
- * Ranges : 30 to 130 dB auto range.
- * Display : LCD, 0.01-9999 %.
- * Criterion Level : 80, 84, 85 or 90dB.
- * Exchange rate : 3, 4, 5 or 6 dB.
- * Threshold level : 70 to 90 (1 dB steps).
- * Response rate : Fast or Slow.
- * Measurement duration :
0/1/5/10/15/30 minutes 1/2/4/8/10/12/24 hours.
- * Microphone :1/2 inch electret condenser.
- * Data logger no. : 16000 no. max..
- * Size : 107 x 58 x 25 mm.
- * Microphone with the clip and the carrying case are included.
- * Optional Excel data transmission software, SW-E2005.

Carrying case
(included)



Microphone with clip
(included)

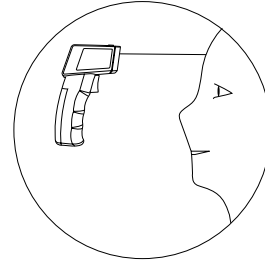
SD card data recorder

NOISE DOSIMETER

Model : DS-2013SD

- * Standards IEC61252, ANSI S1.25 for noise dose and sound exposure meters, IEC 61672 Class 2 / ANSI S1.4 Type 2 for sound level meters.
- * A or C frequency weighting.
- * Ranges : 30 to 130 dB auto range.
- * Display : LCD, 0.01-9999%.
- * Criterion Level : 80, 84, 85 or 90dB.
- * Exchange rate : 3, 4, 5 or 6 dB.
- * Threshold level : 70 to 90 (1 dB steps).
- * Response rate : Fast or Slow.
- * Measurement duration :
0/1/5/10/15/30 minutes 1/2/4/8/10/12/24 hours.
- * Microphone :1/2 inch electret condenser.
- * RS232/USB computer Interface.
- * Real time data logger, saving data can export to SD card with Excel file, then user can download it to the Excel, extra software is no need.
- * SD memory card capacity : 1 GB to 16 GB.
- * AC to DC 9V adapter is included.
- * Size: 132 x 80 x 32 mm.
- * Microphone with the clip and the carrying case are included.

IR Thermometer + type K Temp. Forehead IR Thermometer



Precision, 0.1 degree resolution
Safety red LED light guide
FOREHEAD IR THERMOMETER
Model : FT-967

- * Non-contact temperature measurement, 32.0 °C to 42.0 °C (89.6 °F to 107.6 °F) precision for forehead non-contacted temperature measurement.
- * 0.1 degree resolution, high precision, exclusive design for the human forehead temperature measurement.
- * Useful instrument to find the abnormal (extra higher) human body temperature in the crowd quickly.
- * Back light LCD display.
- * High repeatability with 0.3 °C.
- * °C, °F, display unit is selected by internal switch..
- * IR measurement with red LED light guide, safety.
- * Microprocessor circuit.
- * Gun type, heavy duty & compact housing case.
- * Automatic data hold function to freeze the display reading.
- * LCD display, easy readout.
- * Operates from 006P DC 9V battery.



LED target light,
+ type K thermometer, 2 in 1
INFRARED THERMOMETER
Model : TM-960

- * IR Temp. range : -30 °C to 305 °C .
- * Type K Temp. range : -200 °C to 1370 °C.
- * Mini pocket type.
- * High intensity LED target light, safety.
- * Display resolution :
 IR Temp. : 0.5 degree .
 Type K Temp. (°C) :
 0.1 degree (< 1,000 degree).
 1 degree (≥ 1,000 degree).
- * °C, °F internal select with default.
- * IR function with automatic display hold.
- * Optional type K temperature probes :
 TP-01, TP-02A, TP-03, TP-04, TP-05.
- * DC 9V battery (006P).

5 in 1, 6 in 1 SERIES
Photo tach., Contact tach.
Stroboscope, Type K Temp.
IR Temp.



+ Type K Temp., Pt 1000 ohm TACHOMETER/STROBOSCOPE

Model : DT-2336

- * Multi-functions, one meter combine :
 1. Photo tachometer
 2. Contact Tach. (RPM, m/min., ft/min.).
 3. Digital Stroboscope
 4. Type K Temp. (optional Temp. probe)
 5. Pt 1000 ohm Temp. (optional Temp. probe)
- * High intensity white LED light beam for photo tachometer, safety and save the power energy.
- * Photo Tach. : 5 to 100,000 RPM
- * Contact Tach. : 0.5 to 19,999 RPM.
- * Surface speed : m/min, ft/min.
- * Digital Stroboscope : 100 to 100,000 FPM/RPM
- * Type K Thermometer (optional type K probe) : -100 to 1300 °C, °C/°F.
- * Pt 1000 Thermometer (optional Pt probe) : -10.0 to 70.0 °C, °C/°F.
- * Hold button, REC (Max./Min) button.
- * Back housing with Tripod Fix Nut.
- * USB/RS232 computer interface
- * Power : 1.5 V AA (UM-3) battery x 4 PCs.
- * Optional type K Temp. probes : TP-01, TP-02A, TP-03, TP-04, TP-05.
- * Optional Pt 1000 ohm Temp. probe : TP-1000.
- * With tripod fix nut.

+ Type K Temp., Pt 1000 ohm Temp., IR Temp. TACHOMETER/STROBOSCOPE

Model : DT-2436

- * Multi-functions, one meter combine :
 1. Photo tachometer.
 2. Contact Tach. (RPM, m/min., ft/min.).
 3. Digital Stroboscope.
 4. Type K Temp. (optional Temp. probe)
 5. Pt 1000 ohm Temp. (optional Temp. probe)
 6. Infrared Temp..
- * High intensity white LED light beam for photo tachometer, safety and save the power energy.
- * Photo Tach. : 5 to 100,000 RPM
- * Contact Tach. : 0.5 to 19,999 RPM.
- * Surface speed : m/min, ft/min.
- * Digital Stroboscope : 100 to 100,000 FPM/RPM.
- * Type K Thermometer (optional type K probe) : -100 to 1300 °C, °C/°F.
- * Pt 1000 Thermometer (optional Pt probe) : -10.0 to 70.0 °C, °C/°F.
- * Pt 1000 Thermometer (optional Pt probe) : -10.0 to 70.0 °C, °C/°F.
- * IR Thermometer : -30 to 305 °C, °C/°F.
- * Hold button, REC (Max./Min) button.
- * Back housing with Tripod Fix Nut.
- * USB/RS232 computer interface.
- * Power : 1.5 V AA (UM-3) battery x 4 PCs
- * Optional type K Temp. probes : TP-01, TP-02A, TP-03, TP-04, TP-05.
- * Optional Pt 1000 ohm Temp. probe : TP-1000.

Current, Voltage, Type K Calibrator Thermometer Calibrator SERIES



THERMOMETER CALIBRATOR

Model : TC-424

* Function :

1. Thermocouple calibrator (source).
2. Thermocouple thermometer.
3. Pt100 calibrator (source)
4. Pt100 thermometer (measurement).
5. 400 ohm resistance calibrator (source)
6. 400 ohm resistance measurement.
7. DC mV calibrator (source).
8. DC mV measurement.

* Type K thermocouple : -200.0 to 1370.0 °C

* Type J thermocouple : -200.0 to 1200.0 °C

* Type T thermocouple : -200.0 to 400.0 °C

* Type R thermocouple : 0 to 1760 °C

* Type E thermocouple : -200.0 to 1000.0 °C

* Type S thermocouple : 0 to 1760 °C

* Pt 100 : 0 to 850.0 °C

* Resistance: 0 to 400.0 ohm.

* DC mV : -10.00 mV to +110.00 mV.

* Temp. unit : °C/°F.

* Power: 1.5V (UM-3/AA) battery x 6 PCs or DC 9V adapter in.

* Optional type K Temp. probes :

TP-01, TP-02A , TP-03, TP-04, TP-05.



CURRENT, VOLTAGE, Type K CALIBRATOR

Model : CC-423

* CURRENT CALIBRATOR :

1. Current source: 0 to 24 mA
2. Current measurement : 0 to 24 mA.
3. Power (12V) and current measurement of two wires loop.
4. Resolution : 0.01 mA.

* VOLTAGE CALIBRATOR :

DC mV source: -199.9 mV to +199.9 mV.

* Type K CALIBRATOR :

1. Type K thermocouple calibrator.
2. Type K Thermocouple thermometer.
3. -199 °C to 1230 °C , -325 °F to 2246 °F.
4. °C/°F, Resolution : 0.1 degree.

* Power :

1.5V (UM-3/AA) battery x 6 PCs or DC 9V adapter in.

* Housing case with tripod fix nut structure.

* Optional type K Temp. probes :

TP-01, TP-02A , TP-03, TP-04, TP-05.

RS232 to Wi-Fi Converter SERIES

Wi-Fi

Wi-Fi

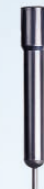


Computer

Wi-Fi



Tablet, Smartphone



Meter 1

cable UPCB-03

Meter 2

cable UPCB-03

Meter 3

cable UPCB-03



METERS with RS232

3 meters input RS232 to WiFi CONVERTER Model : RSW-923

* When LUTRON meters (max. 3 meters) with RS232 interface are connected to RSW-923, the meters can share data via WiFi technology. Therefore, personal devices, like desktop, laptop, smart phone, tablet... with WiFi function can be read the measuring data via WiFi. For example, museum has many show rooms in an open space. If each show room installs three Humidity/temp. indicator MHT-381SD with RSW-923, museum IT control center can monitor 3 sets humidity and temperature information in each room via WiFi network.

* Allow 1 to max. 3 meters and max. 12 channels (the total ch. no. of all meters) input.

* Basic setting of WiFi (key in from the front buttons) :

1. Net mode (Client or AP, default to Client), 2. SSID, 3. Pass word, 4. IP address, 5. Port, 6. Gateway.

* Dot matrix LCD display.

* Five input/output terminals :

1. DC 9V power input.
2. DC 9V power output (power supply for the connecting RS232 meter).
3. Meter 1 RS232 input (photo isolate RS232 type).
4. Meter 2 RS232 input (photo isolate RS232 type).
5. Meter 3 RS232 input (photo isolate RS232 type).

* Accessories included :

1. ACV to DC 9V POWER adapter.
2. RS232 interface cable, UPCB-03 x 3 PCs.
3. Power interface cable (Connect the power cable to the RS232 meter), PWCB-06 x 1 PC.

* APP (Android) and APP (IOS) are available.

* After smart phone or tablet install the APP, user can monitor the measurement value, log.

* High/Low alarm or send the warning message out via SMS or email.



**Meters
with RS232**

RSW-923

Wi-Fi



**APP (Android)
APP (IOS)**

*** Meter APP setup :**

Under Project and Meter page, please select Tool Button (in wheel shape) to configure required data as below:

1. CH No : Channel number from 1 to 12.
2. Sampling time : 1 to 60 minutes. (If Sampling time checkbox is not checked, Data Logger will be disabled.)
3. IP : Fill your WiFi converter IP, for example 192.168.0.101, 27.104.101.235...etc. (If IP checkbox is not checked, signal input connection will be disabled.)
4. Port No : Fill your WiFi converter port number, for example 100, 101...etc.
5. Save file : Define the file path of Data Logger on mobile devices, for example : /storage/sd card/ABC. In this case, Data Logger will be saved under ABC folder as xml file, ex : Project_Meter1_20140608.xml. After the setup is done, please press " Save " button to save the data above as default value.

Features

- * When LUTRON meter with RS232 interface and WiFi converter (RSW-923, RSW-914,) are connected together, the meter can share data via WiFi technology. Therefore personal devices, like smart phone or tablet with MeterAPP installed, can read the measuring data via WiFi and also make further data analysis.
- * MeterAPP can load maximum 16 meters. (4 meters for 4 projects).
- * Each meter can display maximum 12 channels.
- * Sampling time can be set from 1 to 60 minutes.
- * Each channel can preset high/low threshold for alert.
- * When alert is triggered, the mobile devices will sound or send SMS (or Email) warning message to 3 peoples in maximum.
- * Default Meter name can be renamed.
- * Measurement data display unit can be changed manually.
- * Data Logger has 2 modes: " Auto Log " or " Manual Log ".
- * Data Logger will be saved in mobile devices as xml file format which is compatible to Microsoft Office Excel. This benefits you to analyze and share your measurement results easier.
- * When WiFi signal is connected successfully, the connection signal shows green with flashing. Otherwise it shows red color.

Direct Wi-Fi Converter SERIES

Safety application



METERS with RS232



cable
UPCB-03



Wi-Fi

Wi-Fi



Computer

Wi-Fi



Tablet, Smartphone

DIRECT WIFI CONVERTER

Model : RSW-914

* When LUTRON meter with RS232 interface is connected to RSW-914, the meter can share data via WiFi technology. Therefore, personal devices, like desktop, laptop, smart phone, tablet... with WiFi function can be read the measuring data via WiFi. For example if factory installs Power analyzer DW-6095 with RSW-914, then operator can monitor the power information (measuring value) via WiFi network with safety.

* Allow 1 meter and max. 12 channels (the total ch. no.) input.

* Easy operation, no setting requirement in the RSW-914 are required, just connecting the RSW-914 to RS232 meter and power ON only.

* Three input/output terminals :

1. DC 9V power input.
2. DC 9V power output (power supply for the connecting RS232 meter).
3. Meter RS232 input (photo isolate RS232 type).

* Accessories included :

1. ACV to DC 9V POWER adapter.
2. RS232 interface cable, UPCB-03 x 1 PC.

* APP (Android) and APP (IOS) are available.

* After smart phone or tablet install the APP, following to select the WiFi SSID of RSW-914 then user can monitor the measurement value, log, High/Low alarm or send the warning message out via SMS or Email.

I/O Controller to Wi-Fi Converter Humidity/Temp. to Wi-Fi Converter



I/O CONTROLLER to WI-FI CONVERTER

Model : IOW-924

* Automatically switch I/O interface or LUTRON meter RS232 interface function selection.

* Basic setting of WiFi (key in from the front buttons) :

1. Net mode function :
AP or Client or Ethernet (default to client) ,
2. SSID, 3. Pass word, 4. IP address, 5. Port,
6. Gateway.

* Dot matrix LCD display.

* Eight input/output terminals:

1. DC 9V power input.
2. DC 9V power output. (power supply for the connecting RS232 meter) .
3. 2 switch inputs.
4. 2 relay outputs.
5. RS232 input (photo isolate RS232 type) .
6. Ethernet RJ45 input.

* Accessories include:

1. ACV to DC 9V POWER adapter.
2. RS232 interface cable, UPCB-03 x 1 PC.
3. Power interface cable (Connect the power cable to the RS232 meter), PWCB-06 x 1 PC.

* APP (Android) and APP (IOS) are available.



HUMIDITY/Temp. to WI-FI CONVERTER

Model : RHW-925

* Basic setting of WiFi (key in from the front buttons) :

1. Net mode function : AP or Client or Ethernet (default to client) ,
2. SSID, 3. Pass word, 4. IP address, 5. Port, 6. Gateway.

* Dot matrix LCD display.

* Five input/output terminals :

1. DC 9V power input.
2. DC 9V power output.(power supply for the connecting RS232 meter)
3. Pt1000 ohm input.
4. RS232 output(photo isolate RS232 type).
5. Ethernet RJ45 input.

* Humidity (%RH), Wet bulb Temp.,Dew bulb Temp.,Temperature value at the same time and show all the 4 kind reading value in the same LCD.

* Humidity, %RH : 5 to 95 %RH.

* Humidity, Temp.: 0 to 50 °C,°C/°F.

* Temp. sensor : Pt 1000 ohm.

Pt 1000 ohm range : -10 to 70 °C,°C/°F.

* Accessories include:

1. ACV to DC 9V POWER adapter.
2. RS232 interface cable, UPCB-03 x 1 PC.
3. Power interface cable (Connect the power cable to the RS232 meter) , PWCB-06 x 1 PC.

* APP(Android) and APP (IOS) are available.

* After smart phone or tablet install the APP, user can monitor the measurement value, log.

* High/Low alarm or send the warning message out via SMS or email.

* RS-232/USB computer interface.



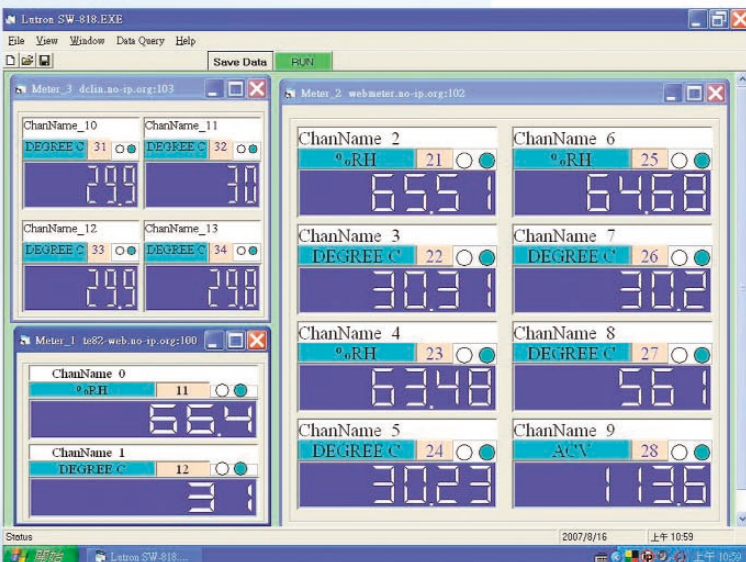
Meters
with RS232

RSW-923

Wi-Fi



Computer



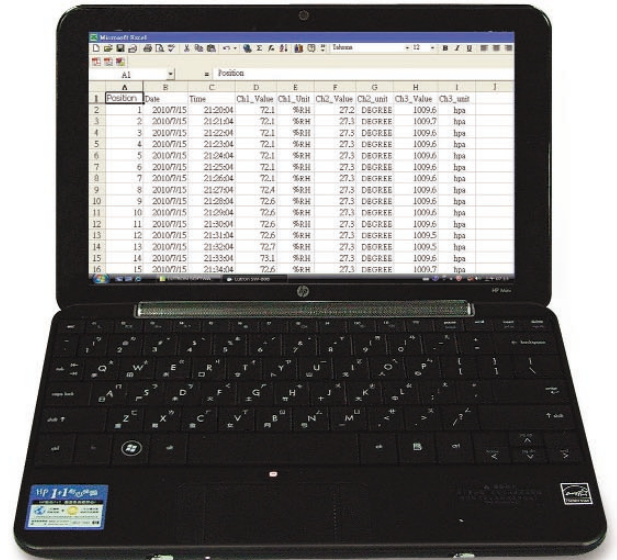
8 meters/64 channels
NETWORK DATA ACQUISITION SOFTWARE
Model : SW-818

- * When LUTRON meter with RS232 interface is connected to RSW-923 converter, Its data can be shared via WiFi technology directly. Therefore, if PC (desktop, laptop) is installed with the SW-818, it can read the measuring data via WiFi from those meters.
- * Windows program is available for WIN 98, XP, Vista, WIN 7...
- * Network data monitor and data recorder software for Multi-instruments.
- * Max. Display : 96 channels (8 meters x 12 channels).
- * Sampling time can be set from 1 to 3,600 seconds.
- * Basic entry parameter :
 1. IP Address, 2. Port, 3. Total Meter No., 4. Channel No.,
 5. Sample Rate, 6. Project Name, 7. Log File Name ...

Excel data Acquisition software Interface cable



USB cable
USB-01



Computer

USB CABLE

Model : USB-01

* The computer interface cable, one side is connected to the meter's RS232 output, the other side is plugged into the USB port of computer.

EXCEL DATA ACQUISITION SOFTWARE

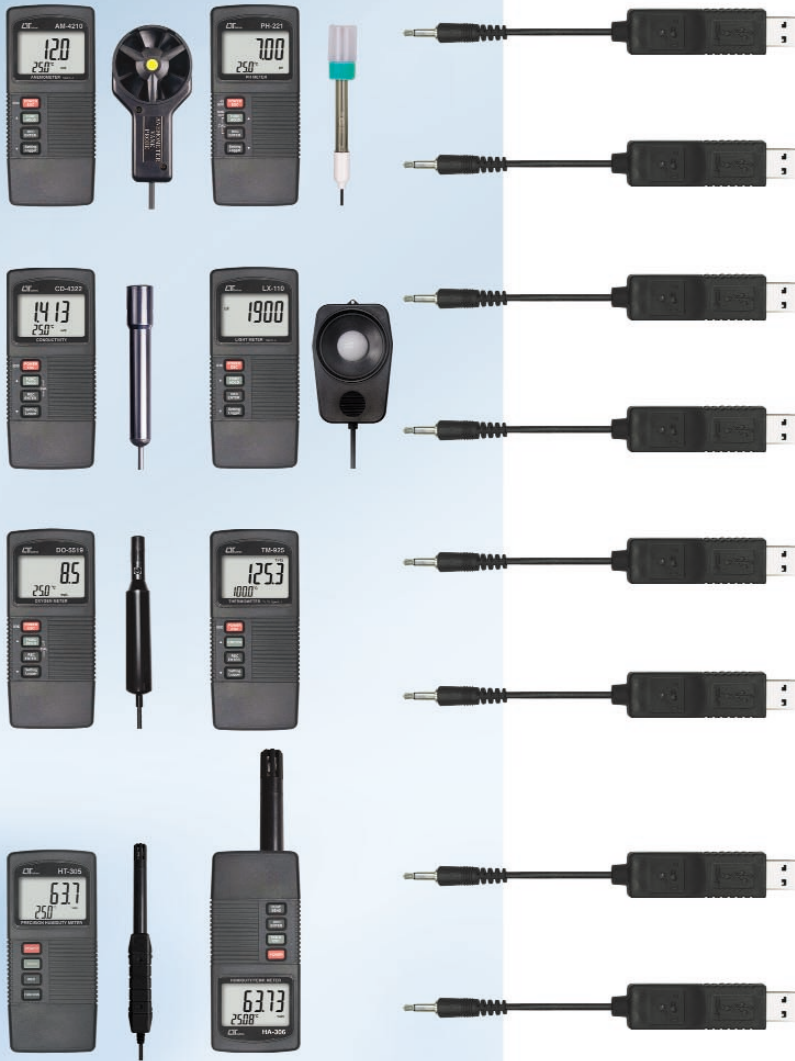
Model : SW-E802

In order to log out the measurement data, some professional data logging softwares are required. However, it decreases the data management flexibility. SW-E802 can log out your measurement data on Microsoft Office Excel, which makes you much easier to share, analyze, and manage the measurement results.

- * Microsoft Office Excel installed on PC is required.
- * Compatible with Microsoft OS Windows 98, Windows XP, Windows Vista, and Windows 7.
- * With LUTRON RS232 converter RSC-801, SW-E802 can monitor multi-meters with multi-channels, 8 meters with 12 channels in maximum.
- * Real time data acquisition system. Timeline data can be recorded as year/date/min/sec.
- * Data sampling time: 1 to 3,600 seconds.
- * Data can be utilized in Excel with general Excel functions, ex. drawing the data charts.

1	Position	Date	Time	Ch1_Value	Ch1_Unit	Ch2_Value	Ch2_Unit	Ch3_Value	Ch3_Unit
2	1	2010/7/15	21:20:04	72.1	%RH	27.2	DEGREE	1009.6	hpa
3	2	2010/7/15	21:21:04	72.1	%RH	27.3	DEGREE	1009.7	hpa
4	3	2010/7/15	21:22:04	72.1	%RH	27.3	DEGREE	1009.6	hpa
5	4	2010/7/15	21:23:04	72.1	%RH	27.3	DEGREE	1009.6	hpa
6	5	2010/7/15	21:24:04	72.1	%RH	27.3	DEGREE	1009.6	hpa
7	6	2010/7/15	21:25:04	72.1	%RH	27.3	DEGREE	1009.6	hpa
8	7	2010/7/15	21:26:04	72.1	%RH	27.3	DEGREE	1009.6	hpa
9	8	2010/7/15	21:27:04	72.4	%RH	27.3	DEGREE	1009.6	hpa
10	9	2010/7/15	21:28:04	72.6	%RH	27.3	DEGREE	1009.6	hpa
11	10	2010/7/15	21:29:04	72.6	%RH	27.3	DEGREE	1009.6	hpa
12	11	2010/7/15	21:30:04	72.6	%RH	27.3	DEGREE	1009.6	hpa
13	12	2010/7/15	21:31:04	72.6	%RH	27.3	DEGREE	1009.5	hpa
14	13	2010/7/15	21:32:04	72.7	%RH	27.3	DEGREE	1009.5	hpa
15	14	2010/7/15	21:33:04	73.1	%RH	27.3	DEGREE	1009.6	hpa
16	15	2010/7/15	21:34:04	72.6	%RH	27.3	DEGREE	1009.7	hpa
17	16	2010/7/15	21:35:04	72.6	%RH	27.3	DEGREE	1009.6	hpa
18	17	2010/7/15	21:36:04	72.6	%RH	27.3	DEGREE	1009.5	hpa
19	18	2010/7/15	21:37:04	72.7	%RH	27.3	DEGREE	1009.6	hpa
20	19	2010/7/15	21:38:04	72.8	%RH	27.3	DEGREE	1009.6	hpa
21	20	2010/7/15	21:39:04	73.1	%RH	27.3	DEGREE	1009.7	hpa
22	21	2010/7/15	21:40:04	73.1	%RH	27.3	DEGREE	1009.7	hpa
23	22	2010/7/15	21:41:04	73.1	%RH	27.3	DEGREE	1009.7	hpa
24	23	2010/7/15	21:42:04	73.1	%RH	27.4	DEGREE	1009.7	hpa
25	24	2010/7/15	21:43:04	73.1	%RH	27.3	DEGREE	1009.6	hpa

8 meter/64 channels Data acquisition software Interface cable



USB cable
USB-01



Computer



8 meters/64 channels DATA ACQUISITION SOFTWARE Model : SW-808

- * Multi-instruments data logging system and data recorder software.
- * Available for most LUTRON meters (if it is built-in the RS232 computer interface). Each meter should cooperate with one USB cable (USB-01). Connect the "ear phone plug" of USB cable to the meter's "RS232 output " and the "USB Plug " of USB cable to the computer's "USB port ". Run the software, in the computer select the convenient "COM port " to make the correspondences to each USB cable (each meter). For example, COM3 refer to Meter 1, COM 4 to Meter 2, COM4 refer to Meter 3...
- * The multi-instrument and multi-display (1/2/4/6/8 displays) powerful Windows program is available for WIN 98, XP, Vista, WIN 7 which enables you to cooperate the LUTRON's RS232 instruments (max. 8 meters). It provides the data logging system (max. 65,000 data), high/low warning, data query. Data file can be converted to Excel file, wide intelligent applications.
- * Max. Display : 64 channels (8 meters x 8 channels).
- * Sampling time can be set from 1 to 3,600 seconds.

USB CABLE Model : USB-01

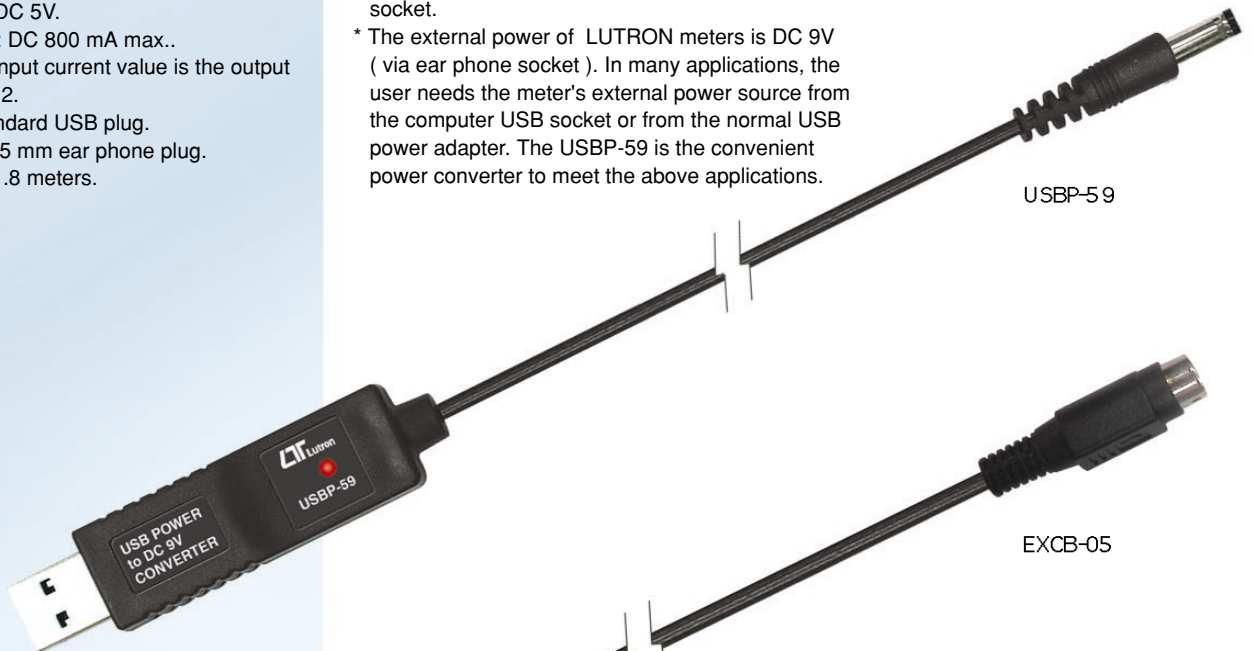
- * The computer interface cable, one side is connected to the meter's RS232 output, the other side is plugged into the USB port socket of computer

USB POWER TO DC 9V CONVERTER

Model : USBP-59

- * DC 5V to DC 9V converter.
- * Output voltage : DC 9V.
- * Input voltage : DC 5V.
- * Output current : DC 800 mA max..
- * Input current : Input current value is the output current value x 2.
- * Input plug : standard USB plug.
- * Output plug : 3.5 mm ear phone plug.
- * Cable length : 1.8 meters.

- * Output plug : ear phone plug, available for all LUTRON meters if it is built-in the DC 9V power socket.
- * The external power of LUTRON meters is DC 9V (via ear phone socket). In many applications, the user needs the meter's external power source from the computer USB socket or from the normal USB power adapter. The USBP-59 is the convenient power converter to meet the above applications.



USBP-59

EXCB-05

EXTENSION CABLE

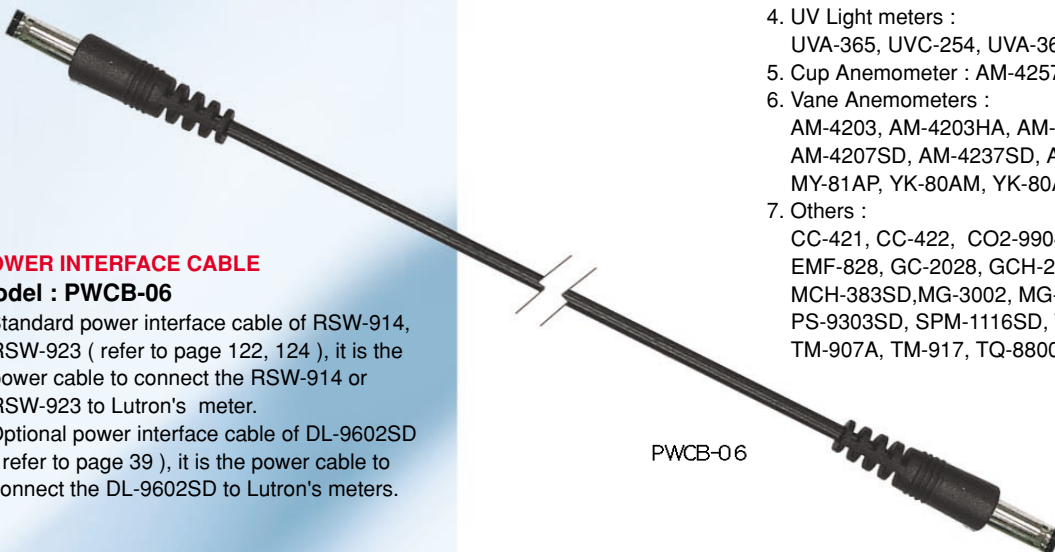
Model : EXCB-05

- * Cable length : 5 meters.
 - * In many applications, the user needs to extend the probe length. The EXCB-05 is a probe extension cable with 5 meters in length that is available for the following models :
1. Dissolved oxygen meters :
DO-5510, DO-5510HA, DO-5512SD, DO-5519, DO-5519E, PDO-520.
 2. Humidity meters :
HD-3008, HT-3007SD, HT-3015, HT-3015A, HT-3017, HT-3027SD, HT-305E, HT-306S, HT-315, MS-7011, MS-7012SD, MY-91HT, YK-90HT.
 3. Light meters :
LX-105, LX-107HA, LX-1102, LX-1108, LX-1128SD, LX-1148SD, LX-114S, YK-10LX.
 4. UV Light meters :
UVA-365, UVC-254, UVA-365SD, YK-35UV, YK-37UVSD.
 5. Cup Anemometer : AM-4257SD.
 6. Vane Anemometers :
AM-4203, AM-4203HA, AM-4205A, AM-4206, AM-4206M, AM-4207SD, AM-4237SD, AM-4307SD, AM-4247SD, MY-81AP, YK-80AM, YK-80AP.
 7. Others :
CC-421, CC-422, CO2-9904SD, CO2-9914SD, COH-9902SD, EMF-828, GC-2028, GCH-2018, GCO-2008, GU-3001, MCH-383SD, MG-3002, MG-3003SD, O2-9903SD, PS-9302, PS-9303SD, SPM-1116SD, TM-9017SD, TM-9027SD, TM-907A, TM-917, TQ-8800, VC-9200, VC-9210SD.

POWER INTERFACE CABLE

Model : PWCB-06

- * Standard power interface cable of RSW-914, RSW-923 (refer to page 122, 124), it is the power cable to connect the RSW-914 or RSW-923 to Lutron's meter.
- * Optional power interface cable of DL-9602SD (refer to page 39), it is the power cable to connect the DL-9602SD to Lutron's meters.



PWCB-06



Water resistant bag
Model : WP-11

- * Water resistant bag, suitable to pack all LUTRON water quality meters such as pH meters, conductivity meters, dissolved oxygen meters to protect the meters from water (rain) splashes.
- * Made of clear PVC.
- * Dust and moisture resistant.
- * Size : 285 cm x 167 mm.

SD card data recorder SERIES
USB memory stick data recorder
MOQ is required



SD card data recorder
%RH, Wet bulb, Dew point, Temp., type K/J Temp.
PRECISION HYGROMETER, 4 displays
Model : HT-13027SD



Optional Temp. probe

SD card data recorder
4 channels THERMOMETER
Model : TM-1947SD



SD card data recorder
LIGHT METER, + type K/J Temp.
Model : LX-11128SD

SD card data recorder SERIES
USB memory stick data recorder
MOQ is required



SD card data recorder
Air flow, Humidity, Dew point
HOT WIRE ANEMOMETER, type K/J Temp.
Model : AM-14224SD



SD card data recorder
ANEMOMETER, + type K/J Temp.
Model : AM-14207SD



SD card data recorder
Humidity/Temp., type K/J Temp.
ANEMOMETER, + Air flow, plastic vane
Model : AM-14237SD



SD card data recorder
CUP ANEMOMETER, + type K/J Temp.
Model : AM-14257SD

SD card data recorder SERIES
USB memory stick data recorder
MOQ is required



SD card data recorder
INTEGRATING SOUND LEVEL METER, class 2
Model : SL-14035SD



two Pt 100 Ω probes input
 TP-100 (Optional)

SD card data recorder
Two channels for PT 100 ohm input
PRECISION 0.01 DEGREE THERMOMETER
Model : TM-19017SD



SD card data recorder
20 uS/200 uS/2 mS/20 mS/200 mS
CONDUCTIVITY METER, TDS, Salt
Model : CD-14318SD



SD card data recorder
Acceleration, Velocity, Displacement
VIBRATION METER
Model : VB-18206SD

SD card data recorder SERIES
USB memory stick data recorder
MOQ is required



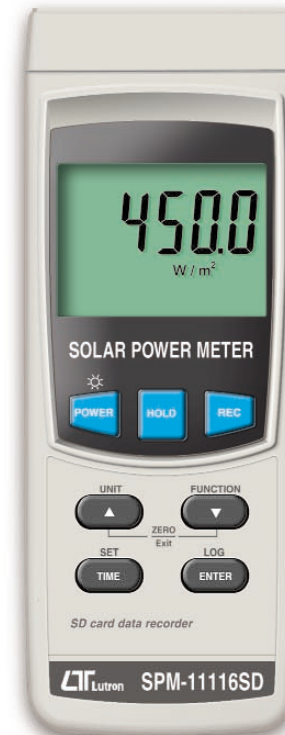
SD card data recorder
RF FIELD STRENGTH POWER METER
Model : EMF-1831SD



SD card data recorder
+ type K/J Temp.
HUMIDITY CONTENT METER
Model : MS-17012SD



SD card data recorder
VACUUM METER
Model : VC-19210SD



SD card data recorder
SOLAR POWER METER
Model : SPM-11116SD



SD card data recorder SERIES
USB memory stick data recorder
MOQ is required



pressure sensor
 PS100-xxBAR
 (optional)



SD card data recorder
PRESSURE METER, full line
Model : PS-19303SD

SD card data recorder
MANOMETER, 2000 mbar, differential input
Model : PM-19110SD



SD card data recorder
MANOMETER, 200 mbar, differential input
Model : PM-19112SD



SD card data recorder
MANOMETER, 7000 mbar, differential input
Model : PM-19117SD

INDEX (Model no./Page no.)

Model	Page
AM-14207SD	132
AM-14224SD	132
AM-14237SD	132
AM-14257SD	132
AM-4100B	86
AM-4207SD	11
AM-4210E	84
AM-4214SD	14
AM-4215SD	14
AM-4224SD	15
AM-4232	101
AM-4233SD	11
AM-4234SD	15
AM-4237SD	13
AM-4247SD	13
AM-4257SD	12
AM-4307SD	11
APP (Android)	123
APP (IOS)	123
AQ-9901SD	19
AQ-9912SD	22
BCT-4308	52
BCT-4320SD	79
BDO-5513SD	79
BPH-231	52
BPH-241SD	78
BTM-4208SD	51
BVB-8207SD	49
BVB-8217SD	50
BWA-2018SD	78
CA-08	40,41,108
CA-203	72
CA-502	72
CC-423	121
CD-14318SD	133
CD-4307SD	25

Model	Page
CD-4309	101
CD-4317SD	25
CD-4318SD	26
CD-4319SD	26
CD-4322E	84
CDPB-03	23,51,106
CDPB-04	52,106
CL-2006	105
CM-6010SD	70
CM-6146	67
CM-6155C	67
CM-6155F	67
CM-6156	67
CM-6158	67
CM-9930	68
CM-9930R	41,68
CM-9930R/	41
DL-9602SD SET	
CM-9940	68
CM-9941	68
CM-9942G	82,84
CMF-3200	62
CO2-9904SD	20,115
CO2-9914SD	22,115
COH-9902SD	21,116
CP-1200	55
CP-1201	56,57,59
CP-200	59
CP-2000	59
CP-3000	60
CP-3001	60
CP-6001	61
CPF-3002	63
CT-2012	45,87,91,92
CWF-3300	63
DI-6400	53

Model	Page
DL-9602SD	39,40,41
DL-9954	68
DM-9131	71
DM-9680	40
DM-9680/	40
DL-9602SD SET	
DM-9862	65
DM-9950	64
DM-9960	64
DM-9961	64
DM-9962SD	65
DM-9971SD	76
DM-9972SD	75
DM-9982B	66,85
DM-9982G	66,82,85
DM-9983B	66,85
DM-9983G	66,82
DO-5512SD	24
DO-5519E	83
DS-2013SD	118
DS-9200	118
DT-2230	84
DT-2237A	72,108
DT-2249A	109
DT-2336	120
DT-2337	104
DT-2349	109
DT-2436	120
DW-6063	73
DW-6064	74
DW-6090A	77
DW-6092	55
DW-6093	56,58
DW-6095	57,58
DW-6095+	58
RSW-914	

Model	Page
DW-6160	53
DW-6163	73
EM-910P	99
EM-9300SD	23
EM-9300USB	48
EMF-1831SD	134
EMF-810	98
EMF-819	96
EMF-830	97
EMF-831SD	33,97
EMF-832	98
EMF-839	96
EP-03H	96
EP-04L	96
ESF-106	74
EXCB-05	129
FG-6005SD	81
FG-6020SD	81
FG-6100SD	81
FR-5105	80
FR-5120	80
FRTP-03	80
FRTP-06	80
FRTP-08	80
FRTP-11	80
FS-1001	80
FT-967	119
FT-9950	68
GC-2028	115
GCH-2018	115
GCO-2008	116
GM-610P	110
GU-3001	95
HS-03	64,65,71,73,74
HT-13027SD	131
HT-3007SD	16

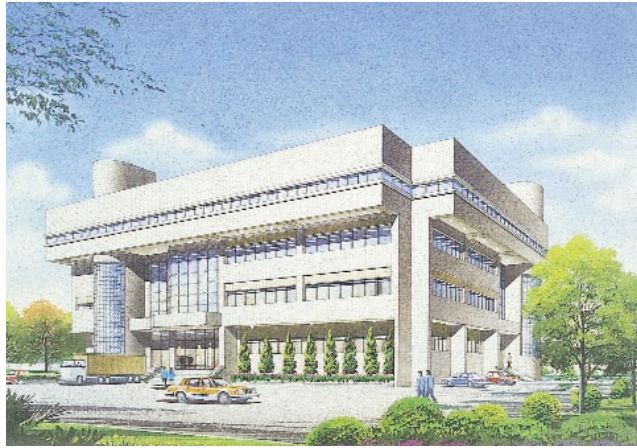
INDEX (Model no./Page no.)

Model	Page
HT-3017	99
HT-3027SD	16
HT-305E	83
HT-306S	94
IOW-924	125
IP-09	71,72
LCR-9172	3
LCR-9173	2
LCR-9183	1
LCR-9184	1
LCR-9185SD	76
LM-8000A	8
LM-8010	9
LM-8100	10
LM-8102	10
LM-9000	9
LS-04	72
LX-110E	83
LX-11128SD	131
LX-1128SD	12
LX-113S	93
LX-1148SD	35,112
LX-114S	112
MCH-383SD	43,115
MG-3002	95
MG-3003SD	34,95
MHB-372	47
MHB-382SD	43
MHT-371	47
MHT-381SD	42
MMA-386SD	46
MMV-387SD	46
MO-2013	77
MO-2014	54
MPS-384SD	44
MS-17012SD	134

Model	Page
MS-7011	100
MS-7013	104
MS-7012SD	33,100
MS-71P	33,100
MSL-388SD	47
MTM-380SD	42
MVB-385SD	45
MVB-385SD+	45
CT-2012	
O2H-9903SD	21,116
OXPB-11	23,51,106
PAA-6069	89
PAM-9212SD	36
PAV-6068	89
PC-6011SD	69
PCO-350	102,116
PDA-6071	90
PDT-2250	87
PDV-6070	90
PE-01	23,51,52,106
PE-02	23,51,52,106 108
PE-03	23,51,52,106
PE-06HDA	23,51,52,106
PE-08	23,51,52,106 108
PE-11	23,51,52,106
PE-21	87
PH-209B	86
PH-221E	83
PH-223	103
PH-224	103
PH-224S	94
PH-230SD	24
PH-321M	110
PHT-3109	87

Model	Page
PI-06	87
PIR-9959A	90
PM-1053	38
PM-1063SD	37
PM-1064SD	37
PM-19110SD	135
PM-19112SD	135
PM-19117SD	135
PM-9100	110
PM-9102	110
PM-9107	110
PM-9110SD	34
PM-9112SD	34
PM-9117SD	34
PMG-302	95,103
PO2-250	102,116
PPF-6066	89
PPH-2108	87
PPS-9312	88
PRS-2321	87
PS-19303SD	135
PS-9303SD	31
PS100-xxBAR	31,135
PTM-9957	88
PUV-360	102,113
PVA-6067	89
PVB-820	102
PVB-8219	90
PWA-6065	89
PWCB-06	129
PWH-303	103
PX-01	87
RHW-925	125
RSW-914	58,124
RSW-923	122,123,126
RT-616	110

Model	Page
SB-01	29
SL-14035SD	133
SL-3113B	86
SL-4023SD	29
SL-4033SD	29
SL-4035SD	29
SL-4112P	99
SL-4113B	86
SMDA-22	1,3
SMDC-21	1,3
SP-7000	5
SP-8001	4
SP-8002	4
SP-82AC	7
SP-82AH	5
SP-82AL	7
SP-82AM	5
SP-82AT	5
SP-82LX	6
SP-82RH	6
SP-82UV	6
SP-9201	4
SP-9202	4
SPM-11116SD	134
SPM-1116SD	30
SW-808	128
SW-818	126
SW-E802	127
SW-E803	2
TC-424	121
TM-19017SD	133
TM-1947SD	131
TM-9017SD	17
TM-9027SD	18
TM-925E	83
TM-928B	86



LUTRON main factory

MAIN ITEMS & INDEX

1) MEASURING INSTRUMENTS

* 3 phase rotation tester, motor tester.....	110
* 4-20 mA current recorder.....	46
* ACA controller/monitor.....	89
* ACA leakage tester.....	68
* ACV controller/monitor.....	89
* APP (Android, IOS).....	123
* Air quality meter.....	21, 37
* Altitude meters.....	4, 7
* Anemometer (Pitot tube).....	36
* Anemometer (air flow, CMM, CFM).....	5, 9, 11, 13
* Anemometer (cup vane type).....	12
* Anemometer (hot wire).....	14, 15
* Anemometers (vane type).....	4, 5, 7, 8, 9, 10, 11, 13, 23, 48, 84, 86, 99, 101, 132
* Apparent power controllers/monitors.....	89
* Automotive tester.....	71
* Balance.....	110
* Barometer.....	4, 7, 9, 43, 47
* CO meters (Carbon monoxide meter).....	19, 21, 22, 102, 116
* CO2 meters (Carbon dioxide meter).....	19, 20, 22, 37, 43, 115
* Calibrators (Thermometer, Voltage, Current).....	121
* Carrying case.....	108
* Chlorine meter.....	105
* Clamp (flexible) meter.....	62
* Clamp (fork) meter.....	68
* Clamp meters (SD card recorder).....	70
* Clamp meters.....	41, 67, 68, 82, 84
* Clamp power analyzer.....	69
* Clamp probe (DCA/ACA current adapter).....	72
* Clamp probe (flexible probe).....	60, 61, 63
* Clamp probe for power analyzer.....	55, 56, 57, 59
* Compass.....	7
* Conductivity meters (TDS meters).....	23, 25, 26, 51, 52, 78, 79, 84, 101, 106, 107, 133
* Conductivity probe.....	106, 107, 51, 52
* Controllers (4 to 20 mA, RPM, %RH, pH, RS232).....	87, 91, 92
* Controllers (DCV, DCA).....	90
* Controllers (IR Temp.).....	90
* Controllers (Pressure, Temp).....	88
* Controllers (Temperature).....	88
* Controllers (Vibration).....	90
* Controllers (Watt, ACA, ACV, VA, PF).....	89
* Current recorder.....	41, 45, 70
* Current shunt (car).....	72
* DCA controller/monitor.....	46
* DCV controller/monitor.....	46
* DMM, Multimeters.....	40, 64, 65, 66, 75, 76, 82, 85
* DOSIMETERS.....	118
* Data recorder (real time data recorder).....	39, 40, 41
* Dissolved oxygen meters.....	106, 107, 23, 24, 51, 78, 79, 83
* Electromagnetic field tester (low frequency).....	98
* Electromagnetic field testers (radio frequency).....	33, 96, 97
* Electrostatic field meter.....	74
* Environment meters.....	4, 5, 6, 8, 9, 10, 23
* Extension cable.....	129
* Force gauge stand.....	80
* Force gauges.....	81
* Forehead IR thermometer.....	119
* Fruit hardness testers.....	80
* Heat index WBGT meter.....	117, 30
* Humidity / Baro /Temp. monitor.....	4
* Humidity / Temp. monitor.....	42, 43, 47
* Humidity / Temp./ Dew point meters (controller).....	4, 5, 6, 8, 9, 10, 13, 15, 16, 19, 20, 21, 22, 23, 37, 38, 42, 43, 47, 48, 83, 94, 99, 115, 116, 117, 131, 132
* Humidity content meters.....	33, 100
* Humidity transmitter.....	92
* Inductive pick up sensor.....	71, 72
* Insulation tester.....	53
* Interface cable (RS232, USB).....	127, 128, 129
* LCR meters.....	1, 2, 3, 76
* LED light meters.....	35, 112
* Lux meters, Light meters.....	4, 6, 8, 9, 10, 12, 23, 35, 48, 83, 93, 99, 112, 131
* Magnetic meters (Gauss meter).....	34, 95, 103

* Manometer.....	34, 36, 110
* Micro-Ohm meter.....	54
* Microwave leakage detector.....	98
* Milliohm meter.....	77
* Multimeters (SD card recorder).....	65, 75, 76
* Multimeters.....	40, 64, 66, 82, 85
* Noise dosimeter.....	118
* O2 meters (Air oxygen meter).....	19, 21, 22, 102, 116
* ORP meters.....	23, 24, 51, 52, 78, 83, 86, 94, 106
* pH electrodes.....	51, 52, 106, 108
* pH meters (pH controller, pH monitor).....	23, 24, 51, 52, 78, 83, 94, 103, 106, 110
* PM 2.5 air quality meters.....	37, 38
* Power analyzer, 1 phase.....	77
* Power analyzers (clamp).....	69
* Power analyzers, 3 phase.....	55, 56, 57, 58
* Power controller/monitor.....	89
* Power factor controller/monitor.....	89
* Power meter (Flexible).....	63
* Pressure meter (Pressure controller).....	31, 44
* Pressure sensors.....	31, 44, 92
* Pure water meter.....	26, 103
* Salt meter.....	25, 26, 78, 79, 101, 106, 107
* Scale, Balance.....	110
* Software.....	126, 127, 128
* Solar power meter.....	30
* Sound level meter (integrating).....	29
* Sound level meters.....	29, 47, 82, 86, 99
* Sport meter.....	4, 5, 6, 7
* Stroboscopes.....	109, 120
* Tachometers (gasoline car).....	72, 108
* Tachometers (photo, contact, controller).....	36, 84, 104, 120
* Temp. controller/monitor.....	88
* Temperature (IR Temp.) transmitter.....	90
* Temperature probe (Pt).....	7, 17, 18, 93
* Temperature probe (type K).....	93, 10, 108
* Test stand for force gauge.....	80
* Thermometer (12 channels recorder).....	51
* Thermometers (Infrared).....	36, 119, 120
* Thermometers (Pt 100 ohm/1000 ohm).....	4, 17, 18, 48, 93, 120
* Thermometers (Thermocouple).....	8, 9, 10, 11, 12, 14, 15, 16, 17, 23, 36, 42, 48, 51, 83, 86, 93, 94, 99, 101, 119, 120
* Thermometers (controller).....	88
* Torque wrench.....	111
* Transmitter.....	45, 91, 92
* Turbidity meter.....	90, 105
* USB power to DC 9V converter.....	129
* UV light meters.....	4, 6, 32, 102, 113, 114
* Vacuum meter.....	31, 72
* Vibration meters (transmitter).....	27, 28, 36, 45, 49, 50, 102, 133
* Vibration sensor.....	49, 50
* Voltage recorder.....	46
* Water hardness meter.....	26, 78, 79, 101, 103
* Water quality meters.....	23, 51, 78, 106
* Water resistance bag.....	130
* Watt meter (DC).....	74
* Watt meter (Watt/leakage meter).....	53, 73
* WiFi converter (Humidity/Temp.).....	125
* WiFi converter (I/O controller).....	82, 125
* WiFi converter (RS232 to WiFi).....	58, 122, 123, 124
* Wind direction transmitter.....	91
* Wind speed transmitter.....	91
* Wood moisture.....	104
2) AUTOMOTIVE METERS (car meters).....	71, 72
3) BENCH TYPE METERS.....	49, 50, 51, 52, 53, 54, 55, 56, 57, 75, 76, 77, 78, 79
4) CONTROLLERS/MONITORS.....	87, 88, 89, 90
5) ECONOMICAL METERS.....	83, 84, 85, 86
6) GREEN POWER PRODUCTS.....	82
7) SD CARD DATA RECORDERS.....	11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 39, 40, 41, 42, 43, 44, 45, 46, 47, 49, 50, 51, 69, 70, 75, 76, 78, 79, 81, 95, 97, 100, 112, 113, 114, 115, 116, 117, 118, 131, 132, 133, 134, 135
8) USB MEMORY STICK DATA RECORDERS.....	48
9) WEATHER/SPORT METERS.....	4, 5, 6, 7