

SD card real time datalogger

3 Channels

PRESSURE DATA RECORDER

Model : MPS-384SD

FEATURES

* Monitor 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 down load to the Excel, extra software is no need. user can make the further data or graphic analysis by themselves.
* Show 3 channels (CH 1, CH 2, CH 3) pressure value in the same LCD.
* Cooperate with the optional 2 wires pressure transmitter.
* SD card capacity : 1 GB to 16 GB.
* Sampling adjustment : 5/10/30/60/120/300/600 seconds and auto function.
* Large LCD display, easy readout.
* Microcomputer circuit, high accuracy.
* Low power consumption and long battery life when use battery power.
* DC 1.5V (UM-4, AAA) battery x 6 PCs or DC 9V adapter in.
* RS232/USB computer interface.
* Full range, optional 2 wires pressure transmitter.
* Patented

GENERAL SPECIFICATIONS

Circuit	Custom one-chip of microprocessor LSI circuit.
Display	LCD size : 60 mm x 50 mm
Measurement	Type K thermometer, °C or °F.
Memory Card	SD memory card. 1 GB to 16 GB.
Input Signal	Linear, 4 to 20 mA
CH1, CH2, CH3	
Datalogger Sampling Time	5/10/30/60/120/300/600 seconds or Auto. * Default sampling time is 60 seconds. * The " Auto " sampling . means when the measuring value is changed (> ± 10 digits) will save the data one time only.
Data error no.	≤ 0.1 % no. of total saved data typically.
Advanced setting	* SD memory card Format * Set clock time (Year/Month/Date, Hour/Minute/Second) * Set sampling time * Set beeper sound ON/OFF * Set SD card Decimal character * Set CH1 sensor type * Set CH2 sensor type * Set CH3 sensor type * Set pressure unit * Set RS232 data output ON/OFF
Update Time of Display	Approx. 1 second if measuring data is changed.
Data Output	RS 232/USB PC computer interface. * Connect the optional RS232 cable UPCB-02 will get the RS232 plug. * Connect the optional USB cable USB-01 will get the USB plug.
Operating Temperature	0 to 50 °C.
Operating Humidity	Less than 85% R.H.
Power Supply * Meter & probe	* DC 9V adapter input. (AC/DC power adapter is included).

Power Supply * Clock backup battery	* Alkaline or heavy duty DC 1.5 V battery (UM4, AAA) x 6 PCs, or equivalent.
Weight	199 g/0.44 LB.
Dimension	132 x 80 x 32 mm (5.2 x 3.1 x 1.3 inch)
Accessories Included	* Instruction manual..... 1 PC * AC to DC 9V adapter..... 1 PC * Hanging unit (with sticker).....1 PC
Optional Accessories	* SD Card (2 GB) * 2 wires pressure transmitter, TR-PS2W * AC to DC 9V adapter. * USB cable, USB-01. * RS232 cable, UPCB-02. * Data Acquisition software, SW-U801-WIN. * Excel Data Acquisition software, SW-E802.

ELECTRICAL SPECIFICATIONS (23±5 °C)

Sensor type	2 bar		5 bar		10 bar	
	Max. range	Resolution	Max. range	Resolution	Max. range	Resolution
bar	2	0.002	5	0.005	10	0.01
PSI	29	0.02	72.5	0.1	145	0.2
Kg/cm ²	2.040	0.002	5.095	0.005	10.19	0.01
mm Hg	1500	2	3750	5	7500	10
inch Hg	59.05	0.05	147.6	0.1	295.2	0.2
meter H2O	20.40	0.02	50.95	0.05	101.9	0.1
inch H2O	802	1	2006	2	4010	5
ATP (Atmosphere)	1.974	0.002	4.935	0.002	9.87	0.01
kPa	200.0	0.2	500.0	0.5	1000	1

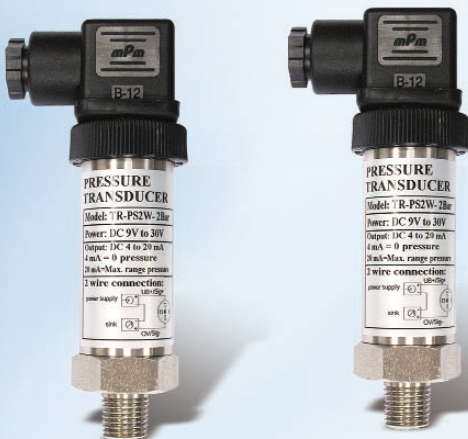
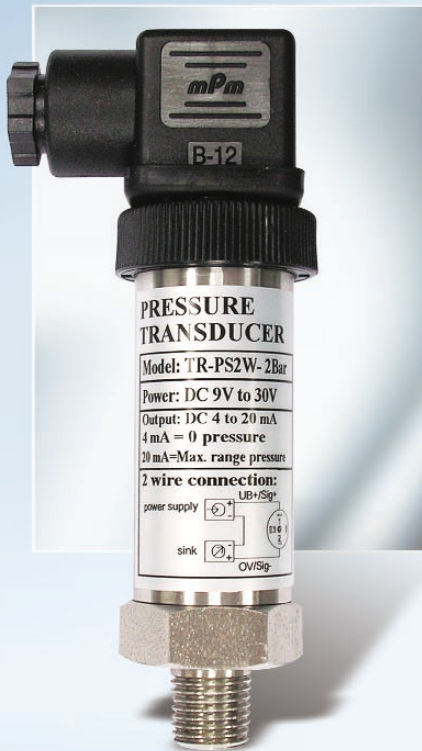
Sensor type	20 bar		50 bar		100 bar	
	Max. range	Resolution	Max. range	Resolution	Max. range	Resolution
bar	20	0.02	50	0.05	100	0.1
PSI	290	0.2	725	1	1450	2
Kg/cm ²	20.40	0.02	50.95	0.05	101.9	0.1
mm Hg	15000	20	37500	50	75000	100
inch Hg	590.5	0.5	1476	1	2952	2
meter H2O	204.0	0.2	509.5	0.5	1019	1
inch H2O	8020	10	20050	20	40100	50
ATP (Atmosphere)	19.74	0.02	49.35	0.05	98.7	0.1
kPa	2000	2	5000	5	10000	10

Sensor type	200 bar		400 bar			
	Max. range	Resolution	Max. range	Resolution		
bar	200	0.2	400	0.5		
PSI	2900	2	5800	5		
Kg/cm ²	204.0	0.2	408.0	0.5		
mm Hg	150000	200	300000	500		
inch Hg	5905	5	11810	10		
meter H2O	2040	2	4075	5		
inch H2O	80200	100	160600	200		
ATP (Atmosphere)	197.4	0.2	394.5	0.5		
kPa	20000	20	40000	50		

* Appearance and specifications listed in this brochure are subject to change without notice.

MPS-384SD

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.
- * 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.