RF FIELD STRENGTH POWER METER

Model: EMF-830 *ISO-9001, CE, IEC1010*







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FEATURES

| * High radio frequency electromagnetic wave field strength measurement. | | | |
|---|--|--|--|
| * Radio field strength power measurement : GSM, CDMA, TDMA, WiFi, | | | |
| WiMAX Bluetooth, security system, cordless phones, Zigbee | | | |
| * Microwave oven leakage detection. | | | |
| * Frequency range: Wide band, 50 MHz to 3.5 GHz. | | | |
| * Measuring unit : | | | |
| V/m, mA/m, mV/m, mW/m^2, uA/m, uW/cm^2, uW/m^2 | | | |
| * 3 axis RF sensor. | | | |
| * 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. | | | |
| * SD card capacity : 1 GB to 16 GB. | | | |
| * Can default auto power off or manual power off. | | | |
| * Data hold, record max. and min. reading. | | | |
| * Microcomputer circuit, high accuracy. | | | |
| * Power by UM3/AA (1.5 V) x 6 batteries or DC 9V adapter. | | | |
| * RS232/USB PC COMPUTER interface. | | | |

GENERAL SPECIFICATIONS

| Circuit | Custom one-chip of microprocessor LSI | | |
|------------------|---------------------------------------|--|--|
| | circuit. | | |
| Display | LCD size : 52 mm x 38 mm | | |
| | LCD with backlight (on/off). | | |
| Measurement | V/m | | |
| Unit | mA/m | | |
| | mV/m | | |
| | mW/m^2 | | |
| | uA/m | | |
| | uW/cm^2 | | |
| | uW/m^2 | | |
| Frequency range | 50 MHz to 3.5 GHz. | | |
| Sensor axis no. | 3 axis RF sensor. | | |
| Unit/Range | Unit | Range | |
| | mV/m, V/m | 20 mV/m to 25.0 V/m | |
| | uA/m, mA/m | 53.0 u A/m to 66.31 mA/m | |
| | uW/m^2, mW/m^2 | 1.0 uW/m^2 to 1657.8 mW/m^2 | |
| | uW/cm^2 | 0.001 uW/cm^2 to 165.78 uW/cm^2 | |
| Unit/Resolution | Unit | Resolution | |
| | mV/m, V/m | 0.1 mV/m to 0.1 V/m | |
| | uA/m, mA/m | 0.1 uA/m to 0.01 mA/m | |
| | uW/m^2, mW/m^2 | 0.1 uW/m^2 to 0.1 mW/m^2 | |
| | uW/cm^2 | 0.001 uW/cm^2 to 0.01 uW/cm^2 | |
| Absolute error | ± 1.0 dB | | |
| @ 1 V/m, 100 MHz | | | |
| | | rochure are subject to change without notice | |

| Frequency | ± 1.0 dB (50 MHz to 1.9 GHz) | | |
|---------------------|---|--|--|
| response | ± 2.4 dB (1.91 GHz to 3.5 GHz) | | |
| @Taking into accoun | t | | |
| typ. Cal. factor | | | |
| Temperature | ± 0.5 dB | | |
| response | | | |
| @ 0 to 50 °C | | | |
| Advanced | * Auto power OFF management | | |
| setting | * Set beep Sound ON/OFF | | |
| | * Warning value setting. | | |
| | * Unit setting. | | |
| Data Hold | Freeze the display reading. | | |
| Memory Recall | Maximum & Minimum value. | | |
| Sampling Time | Approx. 1 second. | | |
| of Display | | | |
| 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 | 0 to 50 ℃. | | |
| Temperature | | | |
| Operating | Less than 85% R.H. | | |
| Humidity | | | |
| Power Supply | *.Alkaline or heavy duty DC 1.5 V battery | | |
| | (UM3, AA) x 6 PCs, or equivalent. | | |
| | *.DC 9V adapter input. (AC/DC power | | |
| | adapter is optional). | | |
| Power Current | Normal operation (w/o SD card save | | |
| | data and LCD Backlight is OFF) : | | |
| | Approx. DC 17 mA. | | |
| | * .If LCD backlight on, the power | | |
| | consumption will increase approx. 4 mA | | |
| Weight | 385 g/0.85 LB. | | |
| Dimension | 235 x 68 x 45 mm. | | |
| | (9.25 x 2.7 x 1.9 inch). | | |
| Accessories | Instruction manual1 PC | | |
| Included | | | |
| Optional | AC to DC 9V adapter. | | |
| Accessories | USB power to DC 9V converter, USBP-59 | | |
| | USB cable, USB-01. | | |
| | RS232 cable, UPCB-02. | | |
| | Data acquisition software, SW-U801-WIN. | | |
| | Excel data acquisition software, SW-E802. | | |
| | Hard carrying case, CA-06. | | |
| | Soft carrying case, CA-05A. | | |

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