

*SD Card, real time data logger, 3 channels, Patent*

# THERMOMETER MONITOR

Model : MTM-380SD

*ISO-9001, CE, IEC1010*



SOLICITAR ORÇAMENTO

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## SD Card real time data logger

# THERMOMETER MONITOR, 3 channels

Model : MTM-380SD

### 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 ( CH1, CH2, CH3 ) Temp. value in the same LCD.  |
| * Type K Thermometer : -100 to 1300 °C, °C/°F.  |
| * 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.   |
| * Type K probe, TP-01 x 1 PC is included.   |
| * Patented  |

|                        |   |
|------------------------|---|
| Update Time of Display | Approx. 1 second if measuring data is changed.  |
| Data Output            | RS 232/USB PC computer interface.<br>* Connect the optional RS232 cable. UPCB-02 will get the RS232 plug.<br>* 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           | * Alkaline or heavy duty DC 1.5 V battery ( UM4, AAA ) x 6 PCs, or equivalent.<br>* DC 9V adapter input. ( AC/DC power adapter is optional ).   |
| Battery life           | If use the new battery ( alkaline type ) and sampling time set to 60 seconds, the battery life will be > one month typically.   |
| Weight                 | 285 g/0.63 LB.  |
| Dimension              | 132 x 80 x 32 mm<br>( 5.2 x 3.1 x 1.3 inch )  |
| Accessories Included   | * Instruction manual.....1 PC<br>* Type K Temp. probe, TP-01.....1 PC<br>* Hanging unit ( with sticker ).....1 PC   |
| Optional Accessories   | SD Card ( 2 GB )<br>Type K thermocouple probe : TP-01, TP-02A, TP-03, TP-04<br>AC to DC 9V adapter.<br>USB cable, USB-01.<br>RS232 cable, UPCB-02.<br>Data Acquisition software, SW-U801-WIN. |

### 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.  |
| Datalogger Sampling Time | 5/10/30/60/120/300/600 seconds or Auto.<br>* Default sampling time is 60 seconds.<br>* The " Auto " sampling . means when the measuring value is changed ( > ± 1 °C ) will save the data one time only.   |
| Data error no.           | ≤ 0.1 % no. of total saved data typically.  |
| Advanced setting         | * SD memory card Format<br>* Set clock time ( Year/Month/Date, Hour/Minute/Second )<br>* Set sampling time<br>* Set beeper sound ON/OFF<br>* Set SD card Decimal character<br>* Select the Temp. unit to °C or °F<br>* Set RS232 data output ON/OFF<br>* Set save mode type |
| Temperature Compensation | Automatic temp. compensation for the the type K thermometer.  |

### ELECTRICAL SPECIFICATIONS (23± 5 °C)

#### Type K thermometer

| Range              | Resolution | Accuracy             |
|--------------------|------------|----------------------|
| -50.0 to 1300.0 °C | 0.1 °C     | ± ( 0.5 % + 0.5 °C ) |
| -50.1 to -100.0 °C |            | ± ( 0.5 % + 1 °C )   |
| -58.0 to 2372.0 °F | 0.1 °F     | ± ( 0.5 % + 1 °F )   |
| -58.1 to -148.0 °F |            | ± ( 0.5 % + 1.8 °F ) |

@ Above accuracy are specified for the meter only.

|        |  |   |                  |
|--------|--|---|------------------|
| PATENT | CHINA : ZL 2008 2 0189918.5 ZL 2008 2 0189917.0<br>Germany : Nr. 20 2008 016 337.4 | TAIWAN : M 358970 M 359043<br>JAPAN : 3151214 | U.S.A. : Pending |
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