

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

THERMOMETER MONITOR

Model : MTM-380SD

ISO-9001, CE, IEC1010



LUTRON ELECTRONIC

The Art of Measurement

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

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	5/10/30/60/120/300/600 seconds
Sampling Time	or Auto. * <i>Default sampling time is 60 seconds.</i> * <i>The " Auto " sampling . means when the measuring value is changed (> ± 1 °C) will save the data one time only.</i>
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 * Select the Temp. unit to °C or °F * Set RS232 data output ON/OFF * Set save mode type
Temperature Compensation	Automatic temp. compensation for the the type K thermometer.

Update Time of Display	Approx. 1 second if measuring data is changed.
Data Output	RS 232/USB PC computer interface. * <i>Connect the optional RS232 cable.</i> <i>UPCB-02 will get the RS232 plug.</i> * <i>Connect the optional USB cable.</i> <i>USB-01 will get the USB plug.</i>
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. * 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 (5.2 x 3.1 x 1.3 inch)
Accessories Included	* Instruction manual.....1 PC * Type K Temp. probe, TP-01.....1 PC * Hanging unit (with sticker).....1 PC
Optional Accessories	SD Card (2 GB) Type K thermocouple probe : TP-01, TP-02A, TP-03, TP-04 AC to DC 9V adapter. USB cable, USB-01. RS232 cable, UPGB-02. Data Acquisition software, SW-U801-WIN.

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)
<i>@ Above accuracy are specified for the meter only.</i>		

PATENT	CHINA : ZL 2008 2 0189918.5 ZL 2008 2 0189917.0 Germany : Nr. 20 2008 016 337.4	TAIWAN : M 358970 M 359043 JAPAN : 3151214	U.S.A. : Pending
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* Appearance and specifications listed in this brochure are subject to change without notice.

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