

*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

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	* 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, UPCB-02. 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. * Default sampling time is 60 seconds. * 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 * 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.

### 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	TAIWAN : M 358970 M 359043
	Germany : Nr. 20 2008 016 337.4	JAPAN : 3151214 U.S.A. : Pending

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

1006-MTM380SD