SD Card real time data logger
12 Channels Temperature Recorder
Model : BTM-4208SD

FEATURES

- 12 channels Temperature Recorder, using SD card to save the data along with time information
- Real time data logger, save the 12 channels Temperature measuring data along the time information (year, month, date, minute, second) into the SD memory card and down load to Excel, extra software is not required. User can make further data or graphic analysis themselves
- Channel No: 12 channels (CH1 to CH12) temperature measurement
- Sensor type: Type J/K/T/E/R/S thermocouple
- Auto data logger or Manual data logger. Data logger sampling time range: 1 to 3600 sec
- Type K thermometer: -100 to 1300 deg C
- Type J thermometer: -100 to 1200 deg C
- Page select , show CH1 to CH8 or CH9 to CH12 in the same LCD
- Display resolution: 1 deg / 0.1 deg
- Offset adjustment
- SD card capacity: 1GB to 16GB
- RS232 / USB computer interface
- Microcomputer circuit provides intelligent function and high accuracy.
- Jumbo LCD with green light backlight, easy reading
- Able to default auto power off or manual power off
- Data hold to freeze the measurement value
- Record function to present the max and min reading
- Power by UM3/AA (1.5V) x 8 batteries or DC 9V adaptor
- RS232 / USB PC computer interface
- Heavy duty & compact housing case

⇦ **OPTIONAL**

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GENERAL SPECIFICATION	
Circuit	One-chip of microprocessor LSI cct
Display	LCD : 82x61mm with green backlight (ON/OFF)
Channels	12 Channel - T1, T2, T3, T4, T5,T6,T7,T8,T9,T10,T11,T12
Sensor Type	K,J, T,E,R,S thermocouple probe
Resolution	0.1°C/1°C,0.1°F/1°F
Sampling time Setting Range	Auto: 1sec to 3600 sec ** memory data may loss if sampling set to 1sec
	Manual: Push button once will save data one time ** Set sampling to 0 sec.
Memory Card	SD memory card 1GB to 16GB
Advance Setting	Set clock time (Year/Month/Date/Hour/ Minute/Sec) Decimal point of SD card setting Auto power OFF management Set beep Sound On/OFF Set temp unit to °C/°F Set sampling time SD memory card format
Temp Compensation	Automatic temp compensation for K/J/T/E/R/S thermometer
Linear Compensation	Linear Compensation for full range
Offset Adj	To adjust the zero temperature deviation value
Probe input socket	K/J/T/E/R/S – 2 pin TC socket
Over Range	Show '----'
Data Hold	Freeze the display reading
Memory Recall	Max and Min value
Sampling time of Display	Approx 1 sec
Data output	PC computer interface RS232 Interface – UPCB-02 USB Interface use USB-01
Power off	Auto shut off saves battery life or manual off by push button
Operating Temp	0~50 °C
Operating Humidity	Less than 85% R.H
Power Supply	Alkaline or heavy duty DC 1.5V battery (UM3, AA) x 8 pcs or equivalent
Power Current	Normal operation (w/o SD card save data and LCD Backlight is OFF): Approx DC 7.5mA
	When SD card save the data but and LCD Backlight is OFF) Appox DC 25mA
	If LCD backlight on, the power consumption will increase approx 11mA
Weight	Meter: 948g (includes batteries)
Dimension	225 x 125 x 64mm (8.86 x 4.92 x 2.52 inch)
Accessories	Instruction manual – 1pc SD Card (2 GB) – 1pc Hard carrying case – 1pc
Optional Accessories	Type K Thermocouple probe USB cable-USB-01 RS232 cable, UPCB-02 Data Acquisityion software, SW-U*11-WIN Excel data Acquisition software, SW-E802 Ac to DC 9V adaptor

Type	Resol	Range	Accuracy
Type K	0.1°C	-50.1 to -100.0°C	+/- (0.4% + 1° C)
		-50.0 to 999.9°C	+/- (0.4% + 0.5° C)
	1°C	1000 to 1300°C	+/- (0.4% + 1° C)
	0.1°F	-58.1 to -148.0°F	+/- (0.4% + 1.8° F)
		-58.0 to 999.9 °F	+/- (0.4% + 1° F)
	1°F	1000 to 2372°F	+/- (0.4% + 2° C)
Type J	0.1°C	-50.1 to -100.0°C	+/- (0.4% + 1° C)
		-50.0 to 999.9°C	+/- (0.4% + 0.5° C)
	1°C	1000 to 1150°C	+/- (0.4% + 1° C)
	0.1°F	-58.1 to -148.0°F	+/- (0.4% + 1.8° F)
		-58.0 to 999.9 °F	+/- (0.4% + 1° F)
	1°F	1000 to 2102°F	+/- (0.4% + 2° C)
Type T	0.1°C	-50.1 to -100.0°C	+/- (0.4% + 1° C)
		-50.0 to 400.0°C	+/- (0.4% + 0.5° C)
	0.1°F	-58.1 to -148.0°F	+/- (0.4% + 1.8° F)
		-58.0 to 752.0 °F	+/- (0.4% + 1° F)
Type E	0.1°C	-50.1 to -100.0°C	+/- (0.4% + 1° C)
		-50.0 to 900.0°C	+/- (0.4% + 0.5° C)
	0.1°F	-58.1 to -148.0°F	+/- (0.4% + 1.8° F)
		-58.0 to 999.9 °F	+/- (0.4% + 1° F)
	1°F	1000 to 1652°F	+/- (0.4% + 2° F)
Type R	1°C	0 to 600°C	+/- (0.4% + 0.5° C)
	1°C	601 to 1700°C	+/- (0.4% + 1° C)
	1°F	32 to 1112°F	+/- (0.4% + 1° F)
	1°F	1113 to 3092°F	+/- (0.4% + 2° F)
Type S	1°C	0 to 600°C	+/- (0.4% + 0.5° C)
	1°C	601 to 1500°C	+/- (0.4% + 1° C)
	1°F	32 to 1112°F	+/- (0.4% + 1° F)
	1°F	1113 to 2732°F	+/- (0.4% + 2° F)