12 channels Temp. RECORDER

Model: BTM-4208SD *ISO-9001, CE, IEC1010*









Type K Temp. probes (optional)





SD Card real time data logger

12 channels TEMPERATURE RECORDER

Model: BTM-4208SD

FEATURES

*	12 channels Temperature recorder, use SD card to
	save the data along with time information, paperless.
*	Real time data logger, save the 12 channels Temp.
	measuring data along the time information (year,
	month, date, 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.
*	Channels no.: 12 channels (CH1 to CH12)
	temperature measurement.
*	Sensor type : Type J/K/T/E/R/S thermocouple.
	Auto datalogger or manual datalogger.
	Data logger sampling time range: 1 to 3600 seconds.
*	Type K thermometer : -100 to 1300 ℃.
*	Type J thermometer : -100 to 1200 ℃.
*	Page select, show CH1 to CH8 or CH9 to CH12 in the
	same LCD.
*	Display resolution: 1 degree/0.1 degree.
	Offset adjustment.
*	SD card capacity: 1 GB to 16 GB.
*	RS232/USB computer interface.
*	Microcomputer circuit provides intelligent function
L	and high accuracy.
*	Jumbo LCD with green light backlight, easy reading.
	Can 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 (1.5 V) x 8 batteries or DC 9V adapter.
*	RS232/USB PC COMPUTER interface.
	Heavy duty & compact housing case.

GENERAL	CDECIE	CATIO	VIC.

Circuit	Custom o	Custom one-chip of microprocessor LSI			
	circuit.	·			
Display	LCD size	LCD size : 82 mm x 61 mm.			
. ,	* with gr	* with green color backlight.			
Channels	12 channels :				
	T1, T2, T	3, T4, T5, T6, T7, T8, T9,			
		T10, T11 and T12.			
Sensor type		Type K thermocouple probe.			
51	Type J/T/E/R/S thermocouple probe.				
Resolution		C, 0.1°F/1 °F.			
Datalogger	Auto	1 second to 3600 seconds			
Sampling Time		@ Sampling time can set to 1 second,			
Setting range		but memory data may loss.			
3 3	Manual	Push the data logger button			
		once will save data one time.			
		@ Set the sampling time to			
		0 second.			
Memory Card	SD memo	ory card. 1 GB to 16 GB.			
Advanced		k time (Year/Month/Date,			
setting	Hour/Minute/ Second)				
3	* Decimal point of SD card setting				
	* Auto power OFF management				
	* Set beep Sound ON/OFF				
	* Set temperature unit to °C or °F				
	* Set sampling time				
	* SD memory card Format				
Temperature		c temp. compensation for the			
Compensation	type K/J/T/E/R/S thermometer.				
Linear		empensation for the full range.			
Compensation		,			
Offset	To adjust	To adjust the zero temperature deviation			
Adjustment	value.				
Probe Input		rmocouple socket.			
	_ p				
Socket	Chau. "	п			
Over Indication		Show " ".			
Data Hold	Freeze the display reading.				
Memory Recall	Maximum & Minimum value.				
Sampling Time of Display	Approx. 1 second.				
Data Output	RS 232/I	ISB PC computer interface.			
Data Output	* Connect the optional RS232 cable				
		D2 will get the RS232 plug.			
	* Connect the optional USB cable USB-UT WIII get the USB plug.				

Power off	Auto shut off saves battery life or			
	manual off by push button.			
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 8 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 7.5 mA.			
	When SD card save the data but and			
	LCD Backlight is OFF):			
	Approx. DC 25 mA.			
	* . If LCD backlight on, the power			
	consumption will increase approx.			
	11 mA.			
Weight	Meter: 948g (includes batteries)			
Dimension	225 X 125 X 64 mm			
	(8.86 X 4.92 X 2.52 inch)			
Accessories	* Instruction manual1 PC			
Included	* Type K Temp. probe, TP-01 2 PC			
	* SD Card (2 GB) 1 PC			
	* Hard carrying case, CA-081 PC			
Optional	 Type K thermocouple probe. 			
Accessories	TP-01, TP-02A. TP-03, TP-04			
	* USB cable, USB-01.			
	* RS232 cable, UPCB-02.			
	* Data Acquisition software, SW-U811-WIN.			
	* EXCEL data Acquisition software, SW-E802.			
	* AC to DC 9V adapter.			

ELECTRICAL SPECIFICATIONS (23±5°C)

Sensor	Resolution	Range	Accuracy
Туре			
Type K	0.1 ℃	-50.1 to -100.0 ℃	± (0.4 % + 1 °C)
		-50.0 to 999.9 ℃	± (0.4 % + 0.5 °C)
	1 ℃	1000 to 1300 ℃	± (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 °F)
Type J	0.1 ℃	-50.1 to -100.0 ℃	± (0.4 % + 1 °C)
		-50.0 to 999.9 ℃	± (0.4 % + 0.5 °C)
	1 ℃	1000 to 1150 ℃	± (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 °F)
Type T	0.1 ℃	-50.1 to -100.0 ℃	± (0.4 % + 1 °C)
		-50.0 to 400.0 ℃	± (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 ℃	-50.1 to -100.0 ℃	± (0.4 % + 1 °C)
		-50.0 to 900.0 ℃	± (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 ℃	0 to 600 ℃	± (0.4 % + 0.5 °C)
		601 to 1700 ℃	± (0.4 % + 1 °C)
	1 °F	32 to 1112 °F	± (0.4 % + 1 °F)
		1113 to 3092 °F	± (0.4 % + 2 °F)
Type S	1 ℃	0 to 600 ℃	± (0.4 % + 0.5 °C)
		601 to 1500 ℃	± (0.4 % + 1 °C)
	1 °F	32 to 1112 °F	± (0.4 % + 1 °F)
		1113 to 2732 °F	± (0.4 % + 2 °F)

Remark :

- a. Accuracy value is specified for the meter only.
- c. Linearity Correction :

Memorize the thermocouple's curve into the intelligent CPU circuit,

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