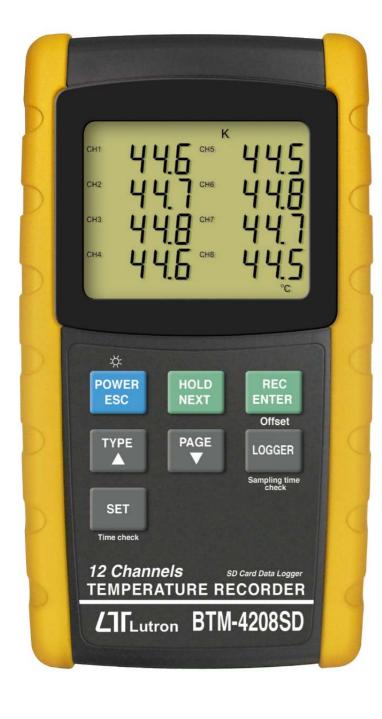
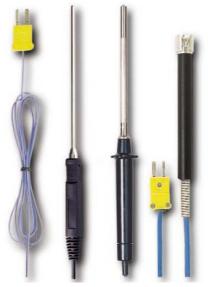
12 channels Temp. RECORDER

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
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	CDECH	ONIC

Circuit	Custom o	one-chip of microprocessor LSI		
	circuit.	· · · · · · · · · · · · · · · · · · ·		
Display	LCD size: 82 mm x 61 mm.			
-1, -3	* with green color backlight.			
Channels	12 channels :			
	T1, T2, T3, T4, T5, T6, T7, T8, T9,			
	T10, T11 and T12.			
Sensor type		Type K thermocouple probe.		
		Type J/T/E/R/S thermocouple probe.		
Resolution		C, 0.1°F/1 °F.		
Datalogger	Auto	1 second to 3600 seconds		
Sampling Time	, 10.10	@ Sampling time can set to 1 second,		
Setting range		but memory data may loss.		
John Startge	Manual	Push the data logger button		
	Mariaai	once will save data one time.		
		@ Set the sampling time to		
		0 second.		
Memory Card	SD mem	ory card. 1 GB to 16 GB.		
Advanced		k time (Year/Month/Date,		
setting		inute/ Second)		
Setting		I point of SD card setting		
		ower OFF management		
		p Sound ON/OFF		
		perature unit to °C or °F		
		•		
	* Set sampling time * SD memory card Format			
Temperature		ic temp. compensation for the		
Compensation				
Linear		type K/J/T/E/R/S thermometer. Linear Compensation for the full range.		
Compensation	Linear Co	ompensation for the full range.		
Offset	To adjus	To adjust the zero temperature deviation		
Adjustment	To adjust the zero temperature deviation			
Probe Input	value. 2 pin thermocouple socket.			
Probe input	2 pin the	imocoupie socket.		
Socket				
Over Indication	Show " ".			
Data Hold	Freeze the display reading.			
Memory Recall	Maximum & Minimum value.			
Sampling Time	Approx. 1 second.			
of Display				
Data Output	RS 232/U	JSB PC computer interface.		
	* Connect the optional RS232 cable			
	UPCB-02 will get the RS232 plug.			
	* Connect the optional USB cable USB-UI WIII get the USB plug.			
	บวช-บ	i wiii get trie usb piug.		

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 manual 1 PC		
Included * Type K Temp. probe, TP-01			
	* 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,

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