SD Card real time data logger

4 channels THERMOMETER

Model: TM-947SD

FEATURES

•	EATURES	
*	Type K/J/T/E/R/S, Pt 100 ohm, measurement with 4 display.	
*	Show 4 channels display on the LCD at the same time.	
*	Type K : -100 to 1300 ℃.	
*	Type J : -100 to 1200 ℃.	
	Pt 100 ohm : -199.9 to 850.0 ℃.	
*	°C/°F, 0.1 degree/1 degree.	
*	4 channels (T1, T2, T3, T4), T1-T2.	
*	Microcomputer circuit provides intelligent function	
	and high accuracy.	
*	Offset adjustment for the Type K/J/T/E/R/S measurement.	
*	Offset adjustment for the Pt 100 measurement.	
*	Measuring unit can select to °C or °F.	
*	Real time SD memory card Datalogger, it Built-in Clock	
	and Calendar, real time data recorder, sampling time set	
	from 1 second to 3600 seconds.	
*	Manual datalogger is available (set the sampling	
	time to 0 econd), during execute the manual datalogger	
	function, it can set the different position (location) No.	
	(position 1 to position 99).	
*	Innovation and easy operation, computer is not need to	
	setup extra software, after execute datalogger, just take	
	away the SD card from the meter and plug in the SD card	
	into the computer, it can down load the all the measured	
	value with the time information (year/month/date/	
	hour/minute/second) to the Excel directly, thenuser can	
	make the further data or graphic analysis by themselves.	
*	SD card capacity: 1 GB to 16 GB.	
*	LCD with green light backlight, easy reading.	
*	Can default auto power off or manual power off.	
*	Data hold, record max. and min. reading.	
*	Microcomputer circuit, high accuracy.	
*	Power by UM3/AA (1.5 V) x 6 batteries or DC 9V adapter.	
*	RS232/USB PC COMPUTER interface.	
*	Heavy duty & compact housing case.	

GENERAL SPECI	FICATIONS
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circuit. Display LCD size: 52 mm x 38 mm LCD with green backlight (ON/OFF). T1, T2, T3, T4, T1-T2. Sensor type Type J/T/E/R/S thermocouple probe. Type J/T/E/R/S thermocouple probe. PT 100 ohm probe * Cooperate with an 0.00385 alpha coefficient, meet DIN IEC 751. Resolution Datalogger Auto Sampling Time Setting range Manual Memory Card Sest the sampling time can set to 1 second, but memory data may loss. Manual Memory Card SD memory card. 1 GB to 16 GB. Advanced setting * Set clock time (Year/Month/Date, Hour/Minute/ Second) * Decimal point of SD card setting * Auto power OFF management * Set beep Sound ON/OFF * Set sampling time * SD memory card Format Temperature Compensation Linear Linear Compensation Offset Available for Type K/J/T/E/R/S and Pt 100 ohm. Probe Input Spe K/J/T/E/R/S Set bear of Type K/J/T/E/R/S and Pt 100 ohm: Ear phone socket. Pt 100 ohm: Ear phone socket. Over Indication Show " ". Data Hold Memory Recall Sampling Time of Display Data Output RS 232/USB PC computer interface. * Connect the optional VSB cable UPCB-02 will get the RS232 plug. * Connect the optional USB cable UPCB-02 will get the USB plug.	Circuit	Custom	one-chip of microprocessor LSI	
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USB-01 will get the USB plug.				
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Auto shut off saves battery life or
manual off by push button.
0 to 50 ℃.
Less than 85% R.H.
*.Alkaline or heavy duty DC 1.5 V battery
(UM3, AA) x 6 PCs, or equivalent.
*.DC 9V adapter input. (AC/DC power
adapter is optional).
Normal operation (w/o SD card save
data and LCD Backlight is OFF):
Approx. DC 8.5 mA.
When SD card save the data but and
LCD Backlight is OFF) :
Approx. DC 30 mA.
* If LCD backlight on, the power
consumption will increase approx.
14 mA.
489 g/1.08 LB.
177 x 68 x 45 mm
(7.0 x 2.7x 1.9 inch)
* Instruction manual1 PC
 * Type K thermocouple probe.
TP-01, TP-02A. TP-03, TP-04
* Pt 100 ohm probe, TP-101.
* SD Card (1 GB)
* SD Card (2 GB)
* USB cable, USB-01.
* RS232 cable, UPCB-02.
* Data Acquisition software,
SW-U801-WIN.
* AC to DC 9V adapter.
* Hard carrying case, CA-06.
* Soft carrying case, CA-05A.

ELECTRICAL SPECIFICATIONS (23 ± 5 $^{\circ}$ C)

PT 100 ohm

Resolution	Range	Accuracy	
0.1 ℃	-199.9 to 850.0 ℃	± (0.4 % + 1 °C)	
0.1 °F	-327.0 to 999.9 °F	± (0.4 % + 1.8 °F)	
1 °F	1000 to 1562 °F	± (0.4 % + 2 °F)	
* Pt 100 ohm probe TP-101 is the optional accessory.			

Type K/J/T/E/R/S

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)

- a. Accuracy value is specified for the meter only.
 b. Accuracy is tested under the meter's environment temperature within 23 \pm 5°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

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