SD card real time data logger Two channels for Pt 100 ohm input , Pt 1, Pt 2, Pt 1-Pt 2 **PRECISION THERMOMETEI LED display**

Model : TM-9027SD





ISO-9001, CE, IEC1010



100 ohm Temp. probe TP-100 (optional)



LUTRON ELECTRONIC

The Art of Measurement

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FEATURES

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* Pt 100 ohm, measurement .				
* Pt 100 ohm : -199.99 to 850.00 ℃.				
* °C/°F, 0.01 degree / 0.1 degree / 1 degree.				
* 2 channels (Pt 1, Pt 2, Pt 1- Pt 2).				
* Microcomputer circuit provides intelligent function and high				
accuracy.				
* 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 second), 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.				
* 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 SPECIFICATIONS

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Circuit	Custom one-chip of microprocessor LSI			
	circuit.			
Display	4 digits red LED, 14 mm (0.55 inch) digit height.			
Function	Pt1, Pt2, Pt1- Pt2 .			
Sensor type	Pt 100 ohm probe, 4 wires			
	 Cooperate with an 0.00385 alpha coefficient, meet DIN IEC 751. 			
Resolution	0.01℃/0.1℃/1℃, 0.01°F/ 0.1°F/1 °F.			
Datalogger	Auto	1,2,5,10,30,60,120,300,600,1800,		
Sampling Time	3600 seconds			
Setting range		@Sampling time can set to 1 second,		
		but memory data may loss.		
	Manual	Push the data logger button		
		once will save data one time.		
		@Set the sampling time to		
		0 second.		
		@Manual mode, can also select the		
		1 to 99 position (Location) no.		
Data error no.	\leq 0.1% of total saved data max.			
Memory Card	SD memory card. 1 GB to 16 GB.			
Advanced	* Set clock time (Year/Month/Date,			
setting	Hour/Minute/ Second)			
	* Set sampling time			
	 * Auto power OFF management * Set beep Sound ON/OFF * Decimal point of SD card setting * SD memory card Format * Set temperature unit to °C or °F 			

Linear	Linear Compensation for the full range.		
Compensation			
Offset	Available for Pt 100 ohm.		
Adjustment			
Probe Input	Pt 100 ohm : 4 DIN socket.		
Socket			
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/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.		
Power off	Auto shut off saves battery life or		
	manual off by push button.		
Operating	-20 ~ 50 °C		
Temperature			
Operating	Less than 85% R.H.		
Humidity			
Power Supply	* Batteries : (UM3, AA) x 6 PCs,		
	or equivalent.		
	* AC/DC power adapter (adapter is optional).		
Power Current	Normal operation (w/o SD card save data) : Approx. DC 24 mA.		
	When SD card save the data) : Approx. DC 50 mA.		
	* AC/DC power adapter is optional.		
	consumption will increase approx.		
	14 mA.		
Weight	278 g/0.61 LB (meter only).		
Dimension	177 x 68 x 45 mm		
Dimension	(7.0 x 2.7x 1.9 inch)		
Accessories	* Instruction manual1 PCS		
Included			
Optional	* Pt 100 ohm probe, TP-100.		
Accessories	* SD Card (4 GB)		
10003301103	* USB cable, USB-01.		
	* RS232 cable, UPCB-02.		
	* Data Acquisition software,		
	SW-U801-WIN., SW-E802.		
	* AC to DC 9V adapter.		
	* Hard carrying case, CA-06.		
	* Soft carrying case, CA-05A.		

ELECTRICAL SPECIFICATIONS (23 ± 5 °C) PT 100 ohm

111000				
Resolution	Range	Accuracy		
0.01 ℃	-19.99 to 99.99 °C	± (0.4 % + 1 ℃)		
0.1 ℃	-199.9 to -20.0℃			
	100.0 to 850.0 ℃			
0.01 °F	-19.9 to 99.99 °F	± (0.4 % + 1.8 °F)		
0.1 °F	-199.9 to -20.0 °F			
	100.0 to 999.9 °F			
1 °F	-327 to -200 °F			
	1000 to 1562 °F			
* Pt 100 ohm probe TP-100 is the optional accessory.				
* Above specification tests under the environment RF Field				
Strength less than 3 V/M & frequency less than 30 MHz only.				
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* Appearance and specifications listed in this brochure are subject to change without notice.

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