SD card real time data logger Two channels for Pt 100 ohm input + type K, J, R, E, T, S PRECISION 0.01 degree THERMOMETER

Model : TM-9017SD

ISO-9001, CE, IEC1010









The Art of Measurement

SD Card real time recorder Two channels for PT 100 ohm input PRECISION 0.01 degree THERMOMETER Model : TM-9017SD

*	Type K/J/T/E/R/S, Pt 100 ohm, measurement.			
*	Type K : -100 to 1300 ℃.			
*	Type J : -100 to 1200 ℃.			
*	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), 1 channels			
	Thermocouple Type K or J/T/R/E/S.			
*	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 $^{\circ}C$ or $^{\circ}F$.			
*	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.			
*	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	Specifications
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General Specifications						
Circuit	Custom one-chip of microprocessor LSI					
Display	I CD size	LCD size : 52 mm x 38 mm				
Diopidy	LCD with	LCD with green backlight (ON/OFE)				
Channels	Pt1 Pt2 Pt1- Pt2 Thermocouple Type					
Sensor type	Type K thermocouple probe.					
	Type $I/T/F/R/S$ thermocouple probe					
	Pt 100 o	hm probe				
	* Coope	rate with an 0 00385 alpha				
	coefficient, meet DIN IEC 751					
Resolution	0.01°C/0	.1°C/1°C, 0.01°F/ 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.				
	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.				
Memory Card	SD mem	SD memory card 1 GB to 16 GB				
Advanced	* Set clo	* Set clock time (Year/Month/Date				
setting	Hour/Minute/ Second)					
* Set sampling time		mplina 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					
	* Set thermocouple type to K/J/R/E/T/S.					
Temperature	Automatic temp. compensation for the					
Compensation	type K/J/	type K/J/T/E/R/S thermometer.				
Linear	Linear Compensation for the full range.					
Compensation						
Offset	Available for Type K/J/T/E/R/S and					
Adjustment	Pt 100 o	Pt 100 ohm.				
Probe Input	Type K/J/T/E/R/S : 2 pin thermocouple socket.					
Socket	Pt 100 ohm : 4 DIN socket.					
Over Indication	Show " -	".				
Data Hold Freeze the display reading.		ne display reading.				
Memory Recall	Maximum & Minimum value.					
L						

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 Temperature	0 to 50 ℃.
Operating Humidity	Less than 85% R.H.
Power Supply	 * Batterise : (UM3, AA) X 6 PCs, or equivalent. * AC/DC power adapter is optional. adapter is optional).
Power Current	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. * 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 (7.0 x 2.7x 1.9 inch)
Accessories Included	* Instruction manual1 PC
Optional Accessories	 Type K thermocouple probe. TP-01, TP-02A. TP-03, TP-04, TP-05. Pt 100 ohm probe, TP-100. SD Card (4 GB) 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

PT 100 ohm

Resolution	Range	Accuracy			
0.01 ℃	-199.99 to 199.99 °C	± (0.1 % + 0.2 ℃)			
	200.0 to 850.0 ℃				
0.01 °F	-199.99 to 392.00 °F	± (0.1 % + 0.4 °F)			
	392.0 to 1562.0 °F				
* The accuracy is specified for the meter only.					
* Pt 100 ohm probe TP-100 is the optional accessory.					

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

Sensor	Resolution	Range	Accuracy		
Typo	, cooulon	nange	needidey		
Type	0.1 %	E0.1 to 100.0 %	+ (0.4% + 1%)		
Турек	0.1 C	-30.1 10 - 100.0 C	$\pm (0.4\% + 1\%)$		
	0.1.0-	-50.0 10 1300.0 0	$\pm (0.4\% + 0.5\%)$		
	0.1 F	-58.1 to -148.0 F	$\pm (0.4\% + 1.8F)$		
		-58.0 to 2372.0°F	± (0.4 % + 1 °F)		
Type J	0.1 ℃	-50.1 to -100.0 ℃	± (0.4 % + 1 °C)		
		-50.0 to 1200.0°C	± (0.4 % + 0.5 °C)		
	0.1 °F	-58.1 to -148.0 °F	± (0.4 % + 1.8 °F)		
		-58.0 to 2192.0 °F	± (0.4 % + 1 °F)		
Туре Т	0.1 ℃	-50.1 to -100.0 °C	± (0.4 % + 1 °C)		
		-50.0 to 400.0 °C	± (0.4 % + 0.5 ℃)		
	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 ℃)		
		-50.0 to 900.0 °C	± (0.4 % + 0.5 ℃)		
	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 1700 °C	± (0.5 % + 3 °C)		
	1°F	32 to 3092 °F	± (0.5 % + 5 °F)		
Type S	1 °C	0 to 1500 °C	± (0.5 % + 3 °C)		
	1 °F	32 to 2732 °F	± (0.5 % + 5 °F)		
* The accuracy is specified for the meter only.					
* Thermocouple probe is the optional accessory.					
change without notice. 1710-TM9017SD					

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