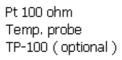
SD card real time data logger Two channels for Pt 100 ohm input + type K, J, R, E, T, S PRECISION 0.01 degree THERMOMETER

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 °C.
*	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 °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.
	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

General Specific			
Circuit	Custom one-chip of microprocessor LSI		
	circuit.		
Display	LCD size	: 52 mm x 30 mm	
	LCD with green backlight (ON/OFF).		
Channels	Pt1, Pt2, Pt1- Pt2, Thermocouple Type .		
Sensor type	Type K t	hermocouple probe.	
	Type J/T	/E/R/S thermocouple probe.	
	Pt 100 o	hm probe	
	* Coope	rate with an 0.00385 alpha	
	coeffic	ient, meet DIN IEC 751.	
Resolution	0.01°C/0	.1℃/1℃, 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 memory card. 1 GB to 16 GB.		
Advanced		ock time (Year/Month/Date,	
setting	Hour/Minute/ Second)		
		mpling time	
		ower OFF management	
	* Set beep Sound ON/OFF		
	* Decimal point of SD card setting		
	* SD memory card Format		
	* Set temperature unit to $^{\circ}C$ or $^{\circ}F$		
	* Set thermocouple type to K/J/R/E/T/S.		
Temperature		ic temp. compensation for the	
Compensation			
Linear			
Compensation	Linear of		
Offset	Available	e for Type K/J/T/E/R/S and	
Adjustment			
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.		
Memory Recall	Maximum & Minimum value.		
* Annooronoo ond		tions listed in this brochure are subject	

Sampling Time	Approx. 1 second.
of Display	Approx. I 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.
Power Current	Normal operation (w/o SD card save data and LCD Backlight is OFF) : Approx. DC 13 mA. When SD card save the data but and LCD Backlight is OFF) : Approx. DC 31 mA. * If backlight on, the power consumption will increase approx. 4 mA.
Weight	242 g/0.53 LB (w/o batteries).
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. * 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 °C	-199.99 to 199.99 °C	± (0.1 % + 0.2 ℃)				
	200.00 to 850.00 °C					
0.01 °F	-327.00 to 392.00 °F±	(0.1 % + 0.4 °F)				
	392.00 to 1562.00 °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	ensor Resolution Range		Accuracy			
Туре		-	-			
Туре К	0.1 ℃	-50.1 to -100.0 °C	± (0.4 % + 1 ℃)			
		-50.0 to 1300.0 °C	± (0.4 % + 0.5 ℃)			
	0.1 °F	-58.1 to -148.0 °F	± (0.4 % + 1.8 °F)			
		-58.0 to 2372.0°F	± (0.4 % + 1 °F)			
Type J	0.1 ℃	-50.1 to -100.0 °C	± (0.4 % + 1 ℃)			
		-50.0 to 1200.0℃	± (0.4 % + 0.5 ℃)			
	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 °C	-50.1 to -100.0 °C	± (0.4 % + 1 °C)			
		-50.0 to 400.0 °C	± (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 ℃)			
		-50.0 to 900.0 °C	± (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	1000.0 to 1652.0 °F	± (0.4 % + 2 °F)			
Type R	1 ℃	0 to 1700 ℃	± (0.5 % + 3 ℃)			
	1 °F	32 to 3092 °F	± (0.5 % + 5 °F)			
Type S	1 ℃	0 to 1500 ℃	± (0.5 % + 3 ℃)			
	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. 2112-TM9017SI						

* Appearance and specifications listed in this brochure are subject to change without notice. 2