SD Card, real time data logger, Patent

4 channels THERMOMETER

ISO-9001, CE, IEC1010 پتروفرهان گسترجنوب



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The Art of Measurement

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SD Card real time data logger

4 channels THERMOMETER

Power off

Operating

Humidity

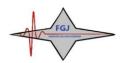
Weight

Temperature Operating

Power Supply

Power Current

پترو فرهان گستر جنوب Model : TM-947SD



FEATURES

*	Type K	/J/T/E/R/S,	Pt 100 c	hm, mea	surement	with 4 dis	pla
*	Show 4	channels	display or	the LCD	at the sai	me time.	

- Show 4 channels display on the LCD at the same time. Type K: -100 to 1300 °C. Type J: -100 to 1200 °C. Pt 100 ohm: -199.9 to 850.0 °C. °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.
- 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**

Memory Card

Advanced setting

Adjustment Probe Input

PATENT

Circuit	Custom one-chip of microprocessor LSI circuit.
Display	LCD size : 52 mm x 38 mm

Display	LCD size : 52 mm x 38 mm		
	LCD with green backlight (ON/OFF).		
Channels	T1, T2, T3, T4, T1-T2.		
Sensor type	Type K 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	0.1°C/1°C, 0.1°F/1 °F.			
Datalogger Sampling Time Setting range	Auto 1 second to 3600 seconds @ Sampling time can set to 1 sec 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.		

SD memory card. 1 GB to 16 GB.

* Set clock time (Year/Month/Date,

	* Decimal point of SD card setting
	* Auto power OFF management
	* Set beep Sound ON/OFF
	* Set temperature unit to °C or °F
	* Set sampling time
	* SD memory card Format
Temperature Compensation	Automatic temp. compensation for the type K/J/T/E/R/S thermometer.
Linear Compensation	Linear Compensation for the full range.
Offset	Available for Type K/J/T/E/R/S and

Hour/Minute/ Second)

Socket	2 pin thermocouple socket. Pt 100 ohm: Ear phone socket.		
Over Indication	Show " ".		
Data Hold	Freeze the display reading.		
Memory Recall	Maximum & Minimum value.		
Sampling Time	Approx. 1 second.		

Pt 100 ohm. Type K/J/T/E/R/S

of Display Data Output RS 232/USB PC computer interface.

- Connect the optional RS232 cable UPCB-02 will get the RS232 plug. @ +982165565901 Connect the optional USB cable USB-01 will get the USB plug.
- CHINA: ZL 2008 2 0189918.5 ZL 2008 2 0189917.0

Dimension Included 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 Optional Accessories AC to DC 9V adapter. Hard carrying case, CA-06. Soft carrying case, CA-05A

Auto shut off saves battery life or manual off by push button.

* 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.

0 to 50 °C

Less than 85% R.H.

ELECTRICAL SPECIFICATIONS (23±5°C)

PT 100 ohm

Resolution	Range	Accuracy
0.1 °C	-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)

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

Sensor Type	Resolution	Range	Accuracy
Туре К	0.1 °C	-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)
Гуре Ј	0.1 ℃	-50.1 to -100.0 ℃	± (0.4 % + 1 °C)
		-50.0 to 999.9 °C	± (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)
уре Т	0.1 ℃	-50.1 to -100.0 ℃	± (0.4 % + 1 °C)
	NUB	-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)
Гуре Е	0.1 ℃	-50.1 to -100.0 ℃	± (0.4 % + 1 °C)
		-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 to 1652 °F	\pm (0.4% + 2°F)
Type R	1 °C	0 to 600 ℃	± (0.5 % + 1 °C)
		601 to 1700 °C	± (0.5 % + 1 °C)
	1 °F	32 to 1112 °F	± (0.5 % + 2 °F)
		1113 to 3092 °F	± (0.5 % + 2 F)
ype S	1 ℃	0 to 600 ℃	± (0.5 % + 1 °C)
		601 to 1500 ℃	± (0.5 % + 1 °C)
	1 °F	32 to 1112 °F	± (0.5 % + 2 °F)
		1113 to 2732 °F	± (0.5 % + 2°F)

TAIWAN: M 358970 M 359043

- Accuracy is tested under the meter's environment temperature
- within 23 ± 5°C.
- Linearity Correction : C +982144584619 Memorize the thermocouple's curve into the intelligent CPU O +989034119385 circuit,

Germany: Nr. 20 2008 016 337.4 JAPAN: 3151214 U.

* Appearance and specifications listed in this brochure are subject to change without notice. U.S.A.: Pending