USB Memory Stick Data Recorder T1, T2, T3, T4 ,Type K/J/R/S/E/T, Pt 100 ohm 4 CHANNELS THERMOMETER

Model: TM-947USB

ISO-9001, CE, IEC1010









The Art of Measurement

USB memory stick data recorder 4 channels THERMOMETER Model : TM-947USB

FEATURES

	EATORES
*	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.
*	
*	Measuring unit can select to °C or °F.
*	Real time recorder, save the data into the USB memory stick,
	it built-in Clock and Calendar, 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 USB memory stick from the meter and plug into
	the computer's USB socket, it can down load the all the
	measured value with the time information (year/month/date/
	hour/minute/second) to the Excel directly, then user can
	make the further data or graphic analysis by themselves.
*	USB memory stick 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.
*	merocompater circuit, nigh 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	LCD size : 52 mm x 38 mm			
	LCD with green backlight (ON/OFF).	P1		
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℃/1℃, 0.1°F/1 °F.	Ту		
Datalogger	Auto 1 second to 3600 seconds	Se		
Sampling Time	@ Sampling time can set to 1 second,	Ту		
Setting range	but memory data may loss.	Ty		
	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.	Ty		
Memory stick	1 GB to 16 GB.			
capacity				
Advanced	* Set clock time (Year/Month/Date,			
setting	Hour/Minute/ Second)			
	* 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	Ty		
Temperature	Automatic temp. compensation for the			
Compensation	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 ohm.			
Probe Input	Type K/J/T/E/R/S			
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.	Re		
of Display				
Data Output	RS 232/USB PC computer interface.			
•	* Connect the optional RS232 cable			
	UPCB-02 WIII get the RS232 plud.			
	UPCB-02 will get the RS232 plug. * Connect the optional USB cable			

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.			
* Pt 100 ohm probe, TP-101.			
* 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℃)

PT 100 ohm

Resolution	Range	Accuracy				
0.1 ℃	-199.9 to 850.0 °C	± (0.4 % + 1 ℃)				
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

	I ype K/J/ Sensor	Resolution	Range	Accuracy			
	Гуре						
	Гуре К	0.1 ℃	-50.1 to -100.0 °C	± (0.4 % + 1 °C)			
	5.		-50.0 to 999.9 °C	± (0.4 % + 0.5 °C)			
		1 ℃	1000 to 1300 °C	± (0.4 % + 1 ℃)			
		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)			
1	Гуре Ј	0.1 ℃	-50.1 to -100.0 °C	± (0.4 % + 1 ℃)			
			-50.0 to 999.9 °C	± (0.4 % + 0.5 ℃)			
		1 ℃	1000 to 1150 °C	± (0.4 % + 1 ℃)			
		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)			
1	Гуре Т	0.1 ℃	-50.1 to -100.0 °C	± (0.4 % + 1 ℃)			
			-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)			
٦	Гуре Е	0.1 °C	-50.1 to -100.0 °C	± (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	± (0.4 % + 2 °F)			
	Гуре R	1 ℃	0 to 1700 °C	± (0.5 % + 3 °C)			
		1°F	32 to 3092 °F	± (0.5 % + 5 °F)			
1	Гуре S	1 ℃	0 to 1500 °C	± (0.5 % + 3 °C)			
		1°F	32 to 2732 °F	± (0.5 % + 5 °F)			
	Remark :	1	1	1			
	a. Accu	racy value is s	specified for the meter	only.			
				vironment temperature			
within 23 ± 5 °C.							
	c. Linearity Correction :						
	Memorize the thermocouple's curve into the intelligent CPU						
	circu		•	ě.			
TAIWAN : M 359043							
JAPAN : 3160908 U.S.A. : Pending							

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

CHINA : ZL 2008 2 0189917.0

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PATENT

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