

Type K/J, Pt 100 ohm, RS-232, Data logger
4 channels THERMOMETER

Model : TM-946

ISO-9001, CE, IEC1010



FEATURES

- * Type K/J, Pt 100 ohm, 4 display.
- * 4 channels (T1, T2, T3, T4),
T1-T2 for Type K, Type J.
- * 2 channels (PT1, PT2) for
Pt 100 ohm.
- * Type K : -199.9 to 1370 °C.
- * Type J : -199.9 to 1210 °C.
- * Pt 100 ohm : -199.9 to 850 °C.
- * °C/°F, 0.1 degree/1 degree.
- * Data hold, Record (max., min.).
- * RS-232 interface.
- * Data logger, 16,000 data point.
- * DC 1.5V (UM-4, AAA) battery
x 6 or DC 9V adapter in.



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The Art of Measurement

T1, T2, T3, T4, T1-T2, Type J/K, Pt 100 ohm

4 CHANNELS THERMOMETER

Model : TM-946

FEATURES

* Type K/J, Pt 100 ohm, measurement with 4 display.
* Show 4 channels display on the LCD at the same time.
* Type K : -199.9 to 1370 °C.
* Type J : -199.9 to 1210 °C.
* Pt 100 ohm : -199.9 to 850 °C.
* °C/°F, 0.1 degree/1 degree.
* 4 channels (T1, T2, T3, T4), T1-T2.
* Microcomputer circuit provides intelligent function and high accuracy.
* Manual and auto data logger, with flexible sampling time selection, can save max. 16,000 reading data.
* Records Maximum and Minimum readings with recall.
* Data hold function for freezing the desired value.
* Offset adjustment for the Type K and Type J measurement.
* Offset adjustment for the Pt 100 measurement.
* Measuring unit can select to °C or °F.
* DC 1.5V (UM-4, AAA) battery x 6 PCs.
* Build in the input socket for DC 9V power adapter.
* RS232 PC serial interface.
* Few panel buttons, easy operation.
* Built-in low battery indicator.
* Heavy duty & compact housing case.

GENERAL SPECIFICATIONS

Circuit	Custom one-chip of microprocessor LSI circuit.
Display	LCD size : 52 mm x 38 mm * Show 4 channels display on the display at the same time.
Display Unit	°C, °F.
Resolution	0.1 °C, 0.1 °F.
Channels	T1, T2, T3, T4, T1-T2.
Sensor type	Type K thermocouple probe. Type J thermocouple probe. PT 100 ohm probe * Cooperate with an 0.00385 alpha coefficient, meet DIN IEC 751.
Sampling Time of Data Logger	Manual Push the data logger button once will save data one time. * Set the sampling to 0 second. Auto 1 second to 59 minutes and 59 seconds.
Data Logger number	Max. 16,000-point Data logger Type K, Type J, 4 channels (T1, T2, T3, T4) * Memory use 4 data point space in the memory. Pt 100 ohm, 2 channels (T1,T2) * Memory use 2 data point space in the memory. T1-T2 * Memory use 4 data point space in the memory.
Temperature Compensation	Automatic temp. compensation for the cold junction both type K/J thermometer
Linear Compensation	Linear Compensation for the full range.
Offset, Span Adjustment	Available for advanced calibration procedure.
Probe Input Socket	Type K, Type J : 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 of display	Approx. 1 second.
Power off	Auto shut off saves battery life or manual off by push button.
Data Output	RS 232 PC serial interface.
Operating Temperature	0 to 50 °C.
Operating Humidity	Less than 80% R.H.
Power Supply	DC 1.5 V battery (UM4, AAA) x 6 PCs, or equivalent. DC 9V adapter input. * AC/DC power adapter is optional.
Power Current	Approx. DC 9 mA.
Weight	310 g/0.68 lb.
Dimension	174 x 68 x 42 mm (6.9 x 2.7 x 1.7 inch).
Accessories Included	Instruction manual..... 1 PC
Optional Accessories	* Type K thermocouple probe. TP-01, TP-02A. TP-03, TP-04 * Pt 100 ohm probe, TP-101. * AC to DC 9V adapter. * RS232 cable, UPCB-02. * USB cable, USB-01 * Data Acquisition software, SW-U801 * Data Logger software, SW-DL2005. * Soft carrying case, CA-05A. * Hard carrying case, CA-06.

ELECTRICAL SPECIFICATIONS (23±5 °C)

Type K, Type J thermocouple

Sensor Type	Resolution	Range	Accuracy
Type K	1 °C	1000 to 1370.0 °C	± (0.5 % + 1 °C)
	0.1 °C	-199.9 to 999.9 °C	
	1 °F	1000 to 2498 °F	± (0.5 % + 1.8 °F)
	0.1 °F	-199.9 to 999.9 °F	
Type J	1 °C	1000 to 1210 °C	± (0.5 % + 1 °C)
	0.1 °C	-199.9 to 999.9 °C	
	1 °F	1000 to 2210 °F	± (0.5 % + 1.8 °F)
	0.1 °F	-199.9 to 999.9 °F	

* Accuracy value is specified for the meter only.
* Type K probe TP-01 TP-02A, TP-03. TP-04 are the optional accessories.

PT 100 ohm

Resolution	Range	Accuracy
0.1 °C	-199.9 to 850 °C	± (0.4 % + 1 °C)
1 °F	1000 to 1562 °F	± (0.4 % + 1.8 °F)
0.1 °F	-199.9 to 999.9 °F	
1 °F	-200 to -327 °F	

* Pt 100 ohm probe TP-101 is the optional accessory.

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

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