

THERMOMETER CALIBRATOR

Model : TC-920

ISO-9001, CE, IEC1010



Lutron

LUTRON ELECTRONIC

The Art of Measurement

with type K thermometer

THERMOMETER CALIBRATOR

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FEATURES

* 2 in 1, one meter included " type k thermometer " & " type k thermocouple calibrator ".
* Precision calibrator for type k thermometer, calibrating process devices and measuring process signals.
* Wide range : -199°C to 1230°C (-325°F to 2246°F).
* Microprocessor circuit assures high accuracy and provides special functions and features.
* Build in temperature linearity compensation circuit, high precision.
* °C & °F select & data hold function for the temperature measurement.
* °C & °F select by the front button for the temperature calibrator.
* Thermocouple sensor for Temp. measurement, fast response time.
* RS 232 PC serial computer interface.
* Temp. measuring input to meet any standard type K (NiCr-NiAl) probe.
* Fitted with standard type K input measuring socket.
* Super large LCD display, easy reading.
* Operates from 006P DC 9V battery.
* Used the durable, long-lasting components, including a strong, light weight ABS-plastic housing case.

GENERAL SPECIFICATIONS

Circuit	Custom one-chip of microprocessor LSI with thermocouple linearity correction circuit.	
Display	14.8 mm (0.58") digit size. Super large LCD display with annunciator.	
Function	2 in 1 : Type k thermometer, Type k thermocouple calibrator.	
Range	Measure : -199.9°C to 1230°C / - 327°F to 2246°F. Calibrator -199.9°C to 1230°C / - 327°F to 2246°F.	
Polarity	' - ' indicates negative polarity.	
Thermometer	Sensor Type	Thermocouple K (NiCr-NiAl).
	Input Impedance	10 Mega ohm.
Sampling	Approx. 1 second.	
Data Output	RS 232 PC serial computer interface.	
Over input indication	Indication of " - - - - ".	

Operating Temperature	0 °C to 50 °C (32 °F to 122 °F).
Operating Humidity	Less than 80% RH.
Power Supply	006P DC 9V, MN1604/PP3 battery or equivalent. <i>Heavy duty or Alkaline type.</i>
Power Current	Approx. DC 9 mA.
Weight	280 g/0.62 LB (included battery).
Size	185 x 78 x 38 mm (7.3 x 3.0 x 1.5 inch).
Accessories Included	Instruction Manual 1 PC. Dual type k plug cable, DUK-02.....1 PC.
Optional Accessories (Please ref. page 9)	* Temperature probe, TP-01, TP-02A, TP-03, TP-04. * Carrying case, CA-03, CA-04. * Software, SW-U801-WIN. * RS232 cable, UPCB-01. * USB cable, USB-01.

ELECTRICAL SPECIFICATIONS (23± 5 °C)

Type K thermocouple Calibrator

Calibrator Range	Resolution	Accuracy	
°C	-199.9 °C to -100.1 °C	0.1 °C	± (1 % + 1 °C)
	-100.0 °C to 999.9 °C	0.1 °C	± (0.5 % + 1 °C)
	1000 °C to 1230 °C	1 °C	
°F	-327 °F to -200 °F	1 °F	± (1 % + 2 °F)
	-199.9 °F to -148.1 °F	0.1 °F	
	-148.0 °F to 999.9 °F	0.1 °F	± (0.5 % + 2 °F)
1000 °F to 2246 °F	1 °F		

Thermometer, measure

Thermometer Range	Resolution	Accuracy	
°C	-199.9 °C to -100.1 °C	0.1 °C	± (1 % + 1 °C)
	-100.0 °C to 999.9 °C	0.1 °C	± (0.5 % + 1 °C)
	1000 °C to 1230 °C	1 °C	
°F	-327 °F to -200 °F	1 °F	± (1 % + 2 °F)
	-199.9 °F to -148.1 °F	0.1 °F	
	-148.0 °F to 999.9 °F	0.1 °F	± (0.5 % + 2 °F)
1000 °F to 2246 °F	1 °F		

The accuracy specification of thermometer applies only to the instrument itself and allowance must be made for limits of error permitted in thermocouple.

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

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