

# THERMOMETER CALIBRATOR

Model : TC-920

*ISO-9001, CE, IEC1010*



**Lutron**

**LUTRON ELECTRONIC**

*The Art of Measurement*

*with type K thermometer*

# THERMOMETER CALIBRATOR

Model : TC-920

## 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	<i>Measure :</i> -199.9°C to 1230°C / - 327°F to 2246°F. <i>Calibrator</i> -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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