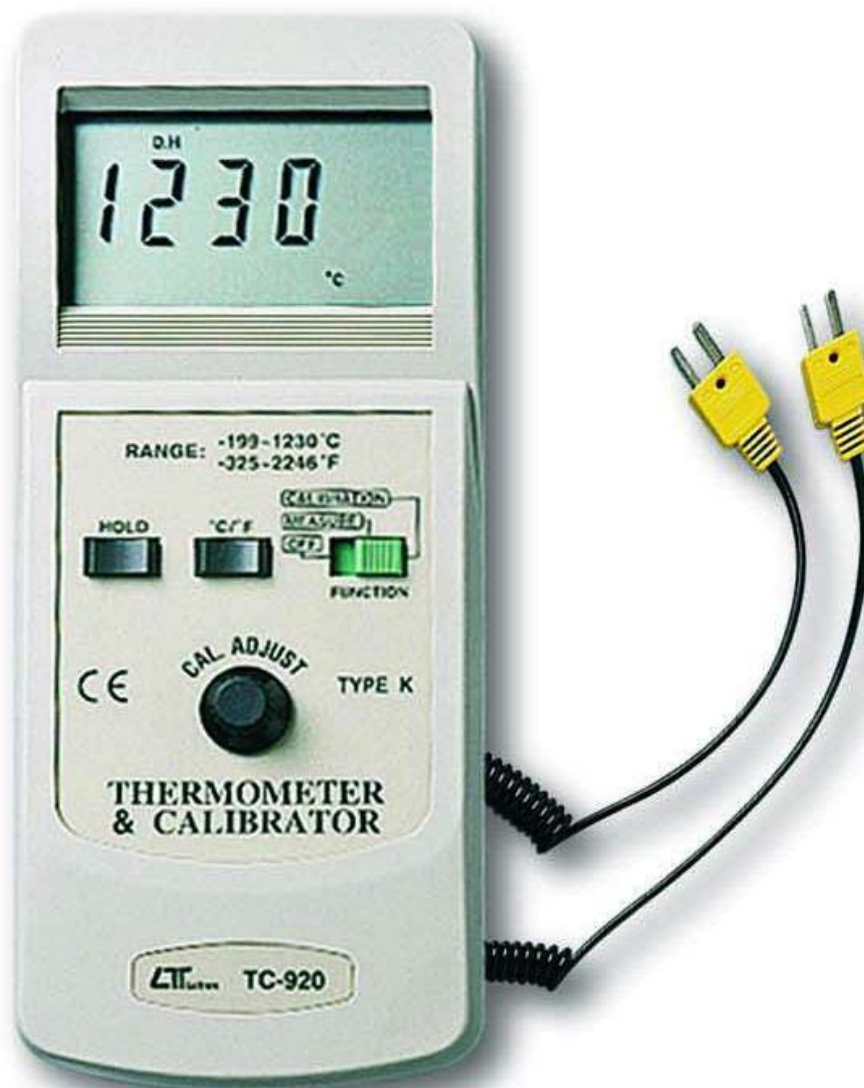


THERMOMETER CALIBRATOR

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 | 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 | |
| | 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.

0603-TC920N