

# UNIVERSAL CALIBRATOR-3001M

TYPE: TEMPERATURE CALIBRATOR



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TEMPERATURE	RANGE	RESOLUTION	ACCURACY
Ambient	0 to 50°C	0.1°C	± 0.2°C
B Type T/C	450°C to 1750°C	0.1°C	± 0.2°C
E Type T/C	-100°C to 1000°C	0.1°C	± 0.5°C
J Type T/C	0°C to 760°C	0.1°C	± 0.5°C
K Type T/C	0°C to 1370°C	0.1°C	± 0.5°C
R Type T/C	200°C to 1750°C	0.1°C	± 0.5°C
S Type T/C	0°C to 1750°C	0.1°C	± 0.5°C
T Type T/C	-200°C to 850°C	0.1°C	± 0.5°C
CU-53	-100°C to 200°C	0.1°C	± 0.5°C
PT-100 RTD	-200°C to 850°C	0.1°C	± 0.5°C

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VOLTAGE	RANGE	RESOLUTION	ACCURACY
20mV	-5mV to +25 mV	1 $\mu$ V	$\pm$ 0.03%FS
200 mV	-50 mV to +250 mV	10 $\mu$ V	$\pm$ 0.03%FS
2V	-0.5V to +2.5V	0.1mV	$\pm$ 0.03%FS
10V	-2.5V to +10V	1mV	$\pm$ 0.03%FS

CURRENT	RANGE	RESOLUTION	ACCURACY
20mA	0 to +25mA	1 $\mu$ A	$\pm$ 0.03%FS
60mA	0 to +60mA	10 $\mu$ A	$\pm$ 0.03%FS

RESISTANCE	RANGE	RESOLUTION	ACCURACY
2K ohm	0 to 2K ohm	0.1 ohm	$\pm$ 0.03%FS

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**TYPE:** TEMPERATURE CALIBRATOR

**DIMENSIONS:** 240(W)× 135(H)×185(D)mm.

**POWER SUPPLY:**

**EXTERNAL POWER SUPPLY:** 230/110V±10%,50Hz/60Hz, OR BUILT IN RECHARGEABLE BATTERY.

**INTERNAL POWER SUPPLY:** RECHARGEABLE BATTERY 7.2V,2.2AH POWER PACK.

**COLDJUNCTION COMPENSATION:** automation from 0°C to 50°C in both measurement and simulation.

CJC switch off with 0°C reference provided.

**DISPLAY:** 5 Digit 0.56" RED high efficiency LED

Discrete Leds to indicate selected function, battery low and charging status indication.

**INPUT IMPEDANCE:** more than 10Mohm(mV, V,T/C)

10 ohm in mA

**OPERATING TEMPERATURE:** 0 TO 55°C.

**HUMIDITY RANGE:** 0 TO 80%R.H. non-condensing.

**TEMPERATURE COEFFICIENT:** +0.002% rdg/°C.

**POWER CONSUPTION:** 10VA.

**APPLICATIONS:**

- capable of measuring the output of or simulating thermocouple types B,E,G,K,R,S,T(ANSI STANDARD)
- capable of measuring output of Pt-100 and Cu-53 RTD and 2K Resistance. Simulation of resistance and RTD by simulator module.

**CODE:** DSE00T0003001M0002.

**MANUAL NO.:**02.