



Application

Ideal for calibrating thermocouples, RTD, indicators, controllers, transmitters, receivers and mA, mV, V, ohms measuring instruments

Features

- Graphical Display
- Microcontroller Based
- Loop Power Supply for Transmitters
- Simulation and Measurement of RTD, thermocouple, mA, mV or V, Ω
- Sink facility in mA mode
- Internal Cold Junction Compensation
- Light weight, handy & portable
- Feather Touch Key Pad



Specification - Measurement Mode

Parameter	Range	Resolution	Accuracy ¹
mA	0 to 25	0.001 (mA)	$\pm 0.025\%$ of Reading + 10 μ A
mV	-10 to 200	0.001 (mV)	$\pm 0.025\%$ of Reading + 10 μ V
V	0 to 10	0.001 (V)	$\pm 0.025\%$ of Reading + 3 mV
Ohms ²	0 to 400	0.01 (Ohm)	$\pm 0.025\%$ of Reading + 0.1 Ohm
RTD (Pt 100) ²	-200 to 850	0.1 ($^{\circ}$ C)	$\pm 0.025\%$ of Reading + 0.3 $^{\circ}$ C

Thermocouple³ $^{\circ}$ C

Type	Range	Resolution	Accuracy
J	-200 to 1200	0.1 $^{\circ}$ C	$\pm 0.025\%$ of Reading + 1 $^{\circ}$ C
K	-200 to 1370	0.1 $^{\circ}$ C	$\pm 0.025\%$ of Reading + 1 $^{\circ}$ C
T	-200 to 400	0.1 $^{\circ}$ C	$\pm 0.025\%$ of Reading + 1 $^{\circ}$ C
E	-200 to 1000	0.1 $^{\circ}$ C	$\pm 0.025\%$ of Reading + 1 $^{\circ}$ C
N	-200 to 1300	0.1 $^{\circ}$ C	$\pm 0.025\%$ of Reading + 1 $^{\circ}$ C
R	300 to 1750	1 $^{\circ}$ C	$\pm 0.025\%$ of Reading + 2 $^{\circ}$ C
S	300 to 1750	1 $^{\circ}$ C	$\pm 0.025\%$ of Reading + 2 $^{\circ}$ C

Note 1: Accuracy specifications include effect of non-linearity, hysteresis and repeatability at 23 \pm 5 $^{\circ}$ C

Note 2: Measurement by 3 wire at an excitation current of 1mA

Note 3: Thermocouple measurement accuracy does not include CJC sensor accuracy (CJC error $\pm 1.0^{\circ}$ C)

Note 4: Maximum load 1000 ohms

Note 5: Source excitation current 0.1 to 2mA

Specification - Source Mode

Parameter	Range	Resolution	Accuracy ¹
mA ⁴	0 to 25	0.001 (mA)	$\pm 0.025\%$ of Reading + 10 μ A
mV	-10 to 200	0.01 (mV)	$\pm 0.025\%$ of Reading + 10 μ V
V	0 to 10	0.001 (V)	$\pm 0.025\%$ of Reading + 3 mV
Ohms ⁵	0 to 400	0.01 (Ohm)	$\pm 0.025\%$ of Reading + 0.1 Ohm
RTD (Pt 100) ⁵	-200 to 850	0.1 ($^{\circ}$ C)	$\pm 0.025\%$ of Reading + 0.3 $^{\circ}$ C

Thermocouple³ $^{\circ}$ C

Type	Range	Resolution	Accuracy
J	-200 to 1200	0.2 $^{\circ}$ C	$\pm 0.025\%$ of Reading + 2 $^{\circ}$ C
K	-200 to 1370	0.2 $^{\circ}$ C	$\pm 0.025\%$ of Reading + 2 $^{\circ}$ C
T	-200 to 400	0.2 $^{\circ}$ C	$\pm 0.025\%$ of Reading + 2 $^{\circ}$ C
E	-200 to 1000	0.2 $^{\circ}$ C	$\pm 0.025\%$ of Reading + 2 $^{\circ}$ C
N	-200 to 1300	0.2 $^{\circ}$ C	$\pm 0.025\%$ of Reading + 2 $^{\circ}$ C
R	300 to 1750	1 $^{\circ}$ C	$\pm 0.025\%$ of Reading + 3 $^{\circ}$ C
S	300 to 1750	1 $^{\circ}$ C	$\pm 0.025\%$ of Reading + 3 $^{\circ}$ C

Current Terminal Input

Protection	: Fuse: 100mA / 250V
Memory Function	: 9 set of values for each parameter in generation
Backlight	: LED Backlight
Power Supply	: Li-ion Rechargeable Battery
Low Battery Indicator	: Yes
Battery Backup	: 18 hours @ no load condition 11 hours 30 mins. @ 20mA with 850 ohm load
Loop Power Supply	: 24V $\pm 10\%$
Operating Temperature	: 10 to 50 $^{\circ}$ C
Instrument Casing	: ABS Plastic
Instrument Dimensions	: 250 mm x 140 mm x 45 mm (LxWxD)
Instrument Weight	: 500 gms

Standard Delivery

1. Instrument : 1 no.
2. Carrying Pouch : 1 no.
3. Test Lead (2 wire) : 2 nos.
4. Test Lead (3 wire) : 1 no.
5. Charger : 1 no.
6. User Manual : 1 no.
7. Traceable Calibration Certificate

Optional

Accredited (NABL) Calibration Certificate as per ISO/IEC 17025:2005 Standard

Manufacturer of
**TEST BENCHES
CALIBRATION INSTRUMENTS**

**ISO 9001:2008
Certified Company**

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ACCREDITED CALIBRATION LABORATORY

As per ISO / IEC 17025

**THERMAL
MECHANICAL
ELECTROTECHNICAL**

www.calibrationlab.in