

- ✓ Current Calibrator 0/4 - 22mA, Source/Sink
- ✓ Voltage Calibrator 0-14V
- ✓ mV Ranges 0-28mV and 0-560 mV
- ✓ DIN Thermocouples J, K, N, R, S, T, B, E
- ✓ Multimeter $\pm 2V$ to $\pm 200V$ DC and $\pm 100mA$
- ✓ Simultaneous Calibration and Measurement
- ✓ Steps, Ramps, direct entry
- ✓ Built-in rechargeable Battery



IOC 502-t is a Calibrator-Multimeter for generation of currents 0/4-22mA in Source or Sink Mode and voltages 0-14V. External voltages $\pm 2V$, $\pm 20V$ and $\pm 200VDC$ and currents of up to $\pm 100mA$ can be measured simultaneously.

Two mV-Ranges 0-28mV and 0-560mV are available for calibration of Strain Gauges circuits, low signal amplifiers, Transmitter signal circuits and other mV-Applications.

DIN Thermocouples J, K, N, R, S, T, B, E can be simulated. The required sensor type will be selected and the temperature value set with the keyboard. The temperature value is shown on the display and the corresponding mV signal is available at the output terminals. Internal cold junction compensates the termination against the ambient temperature. The compensation can be switched off.

The calibrator operates from an internal rechargeable Li-Ion battery which permits **9 hours** of operation with 20mA output current. All measuring ranges can be calibrated individually by using the internal calibration software.

The calibrator is shipped with battery charger, two cables, calibration sheet and owner's manual.

FUNCTIONS

- Tare, Filter and Backlight can be selected.
- Selection of mV Signals 0-30mV or 0-600mV with resolution of 0.001mV or 0.01mV.
- Direct selection of the output signal value with the keyboard. The current can be set from 0 to 22.000mA, the voltage from 0 to 14.000V.
- mV Signals of DIN - Thermocouples J, K, N, R, S, T, B, E with or without cold junction compensation.
- Rising or falling ramps 0-14V or 0-22mA with selectable increments.
- Preselected signal steps 0-2-4-6-8-10-12-14V and 4-8-12-16-20 mA

SPECIFICATIONS

CALIBRATOR

DC A	0/4 - 22 mA DC	Source or Sink, Resolution 0.001mA.
DC V	0 - 14 V DC	Resolution 0.001V.
mV Output	0-28 mV DC	Resolution 0.001mV.
	0-560mV DC	Resolution 0.01mV
Thermometer	Thermocouples	J, K, N, R, S, T, B, E according to DIN
	The Terminals are internally compensated to the ambient temperature.	
	The compensation can be switched off.	
	The temperature values can be selected within the entire temperature range.	
Signal Output	Direct Setting:	With the keyboard, 5 digits resolution.
	In Steps:	4-8-12-16-20-22 mA and 0-2-4-6-8-10-12-14 V.
	Ramps:	Rising, falling or automatic ramps with selectable increments.

MULTIMETER

Range 2 V DC	Input Impedance:	1.38 M Ohm
Range 20 V DC	Input Impedance:	593 k Ohm
Range 200 V DC	Input Impedance:	563 k Ohm
Range 100 mA DC	Input Impedance:	10 Ohm

Firm input voltage ranges 2V, 20V or 200V or autoranging 0-200VDC can be selected.
One input current range 100mADC.

The Calibrator and the Multimeter operate simultaneously.

ADDITIONAL SPECIFICATIONS

ACCURACY Calibrator

± 0.05% from value+ 0.1% from range.

ACCURACY Multimeter

± (0.1% from range + 1 Digit)

TEMPERATURE COEFFICIENT

± 25ppm / K

MULTIMETER SAMPLING RATE

2 Samples/sec.

ACCESSORY

Mains charger 95 - 240VAC
Cable Set red and black
Warranty Statement
Calibration Sheet
Owner's Manual
Carrying Case

TERMINALS

4mm gold plated terminals.

SUPPLY

Built-in rechargeable battery permits 9 hours of operation with the output current of 20mA and the backlight switched off.

IOC 502-t with accessory

