

Multifunction Calibrator PCE-123



Digital, electrical, current, voltage or process calibrator, tester or multimeter for simulation and measurement of standardized electrical signals / control signals as well as frequencies and temperature

The PCE-123 is a network-independent multifunction calibrator used to test and calibrate a variety of parameters of controllers and measuring instruments. Offering a high level of accuracy for an affordable price, this easy-to-use calibrator provides electrical (mA, mV, V and frequency in Hz) and temperature (in °C or °F) output signals, making the calibrator useful in a wide range of applications.

The calibrator also has automatic step and ramp functions as well as the possibility to pre-select the output signal steps (0 ... 100 %) by using the arrow keys and to directly specify an output value (e. g. 13.8 mA). Operation via the keypad is very easy and intuitive. The PCE-123 multifunctional calibrator is an important tool in any electronics workshop as well as in any measuring and control department in trade, industry and automation.

- 4 to 20mA (1kΩ, 24V power)
- 0 to 100.00 mV / 0 to 1,000.00V / 0 to 12,000.00V
- Type-K, J, E, T temperature thermocouple sensors (°C or °F)
- Frequency range 1 to 62,500Hz
- Basic accuracy 0.025 %
- Easy operation via keypad
- Automatic ramp function
- Selectable between 0 to 20mA/ 0 to 24mA
- Input 0 to 100% (mA, mV, V)
- Alarm beep 'open' (mA) or 'short circuit' (mV, V)

Specifications

More information

mA DC current **(Maximum load at 1 k Ω , powered by 24 V)**

Ranges	4 to 20mA / 0 to 20mA / 0 to 24mA
Resolution	1 μ A
Accuracy	$\pm 0.025\%$ $\pm 3\mu$ A
Alert	Beeps when there is a short circuit or output current > 1 mA

mV current, V DC **(Power 1 mA)**

Ranges	0 to 100.00 mV 0 to 10.000 V 0 to 1.0000 V
Resolution	10 μ V 1 mV 1.0000 V
Accuracy	$\pm 0.05\%$ $\pm 30 \mu$ V $\pm 0.05\%$ ± 3 mV $\pm 0.05\%$ $\pm 300 \mu$ V
Alert	Beeps when there is a short circuit or output current > 10mV.

Thermocouple types K, J, E, T **(1 k Ω min.)**

Ranges	K: -200 to 0 $^{\circ}$ C and 0 to 1370 $^{\circ}$ C J: -100 to 0 $^{\circ}$ C and 0 to 760 $^{\circ}$ C E: -10 to 0 $^{\circ}$ C and 0 to 700 $^{\circ}$ C T: -200 to 0 $^{\circ}$ C and T: 0 to 400 $^{\circ}$ C
Resolution	1 $^{\circ}$ C (across entire range)
Accuracy	K: ± 1.1 $^{\circ}$ C and ± 0.8 $^{\circ}$ C J: ± 0.9 $^{\circ}$ C and ± 0.7 $^{\circ}$ C E: ± 0.9 $^{\circ}$ C and ± 0.7 $^{\circ}$ C T: ± 1.0 $^{\circ}$ C and ± 0.8 $^{\circ}$ C

Frequency

Ranges	1 to 125 Hz
Resolution	1 Hz
Accuracy	± 0.04 Hz
Selection	604 frequencies

General specifications

Manual



More product info



Similar products



Subject to change

Display	5-digit LCD
Operating conditions	0 to 50 °C; < 85 % r.h.
Storage conditions	-20 to 60 °C; < 85 % r.h.
Power	1 9 V battery or 6 x 1.5 V batteries
Consumption	60 mA to 180 mA (depending on output)
Battery indicator	5.5 V for 150 mA
Approx. dimensions	88 x 168 x 26 mm
Approx. weight	330 g

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