

# 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 kΩ, powered by 24 V)**

Ranges	4 to 20mA / 0 to 20mA / 0 to 24mA
Resolution	1μA
Accuracy	±0.025% ±3μA
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 μV 1 mV 1.0000 V
Accuracy	± 0.05% ±30 μV ± 0.05% ±3 mV ± 0.05% ±300 μV
Alert	Beeps when there is a short circuit or output current >10mV.

## **Thermocouple types K, J, E, T** **(1 kΩ min.)**

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

Subject to change