

## **Process Calibrator PCE-123**



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

The PCE-123 is a network-independent multifunction calibrator used to test and calibrate avariety of parameters of controllers and measuring instruments. Offering a highlevel of accuracy for an affordable price, this easy-to-use calibrator provideselectrical (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 outputsignal steps (0 ... 100 %) by using the arrow keys and to directly specify anoutput 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 anyelectronics workshop as well as in any measuring and control department intrade, industry and automation.

- 4 to 20mA (1k $\Omega$ , 24V power)
- 0 to 100.00 mV / 0 to 1,0000V / 0 to 12,000V
- 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)





www.pce-instruments.com

## **Specifications**

Technical specifications	
mA DC current	
(maximum load at 1k $\Omega$ , powered by 24V)	
Range	4 to 20mA / 0 to 20mA / 0 to 24mA
Resolution	1μΑ
Accuracy	±0.025% ±3µA
Alert	beeps when there is a short circuit or ouput current >1mA .
mV current, V DC	
(power 1mA)	
	0 to 100.00 mV
Ranges	0 to 10.000 V
	0 to 1.0000 V
	10 μV
Resolution	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 ouput current >10mV.
Temperature sensor thermocouple type-K, J, E, T	
(1 kΩ min.)	
Ranges	K: -200 0 °C / -328 32 °F and 0 1370 °C / 32 2498 °F
	J: -100 0 °C / -148 32 °F and 0 760 °C / 32 1400 °F
	E: -10 0 °C / 14 32 °F and 0 700°C / 32 1292 °F
	T: -200 0°C / -328 32 °F and T: 0 400 °C / 32 752 °F
Resolution	1°C (across entire range)
Accuracy	K: $\pm 1.1$ °C and $\pm 0.8$ °C
	J: $\pm 0.9$ °C and $\pm 0.7$ °C
	E: $\pm 0.9^{\circ}$ C and $\pm 0.7^{\circ}$ C
	T: ±1.0°C and ±0.8°C
Frequency	
Range	1 to 125Hz and 126 to 62.5kHz
Resolution	1 to 125Hz / 1Hz 126 to 62.5kHz / 604 readings
Accuracy	±0.04Hz
Selection	604 frequencies
General characteristics	

## More information



Operating conditions 0 ... 50 °C / 32 ... 122 °F <85% r.h.

Display

Storage conditions -20 ... 60 °C / -4 ... 140 °F; <85% r.h.

5 position LCD

Power1 9V battery or 6 x 1.5V batteriesConsumption60mA to 180mA (depending on output)Battery indicator5.5V for 150mADimensions88 x 168 x 26mm / 3.4 x 6.6 x 1 inWeight330 g / 11.6 oz

Subject to change



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