Calibrator

PCE PCE-789

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PCF

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PCE-123

ON/OFF

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MULTIFUNCTION CALIBRATOR

²⁴⁴ www.pce-instruments.com/us

Calibrators regenerate electrical signals. In measurement and control technology, they are used to adjust and check measurement and control applications.

The measuring variables to be tested are assigned to standard measurement signals or control variables. These measurement signals / control variables are called standardised signals which are defined as 0 ... 20 mA, 4 ... 20 mA, 0 ... 10 V and 0.2 ... 1 bar. These magnitudes are, for example, assigned to a temperature, a current flow or to an actuating variable of a control valve. Since accurate control and transmission of process signals are essential, all measurement instruments and controls or complete control systems should be calibrated previously by means of a calibrator and existing controls should be checked at regular intervals and, if necessary, recalibrated using a process calibrator.

Our high-precision calibrators ensure the necessary degree of security for experts in measurement and control technology or in quality control.

Calibrator

PCE-123

Setpoint Device for Simulation

- · proceses calibrator for any operation
- temperature: K-, J-, E-, T-type sensors (°C and °F)
- standardised signals: 4 ... 20 mA / 0 ... 100 mV / 0...1V/0...12V
- frequency range: 1 ... 62,500 Hz



TECHNICAL SPECIFICATIONS

Sensor type	K, J, E, T
Ranges	-200 0 °C & 0 +1,370 °C;
	4 20 mA / 0 20 mA / 0 24 mA;
	0 100.00 mV /10.000 V /1.0000 V
	1125 Hz & 126 62.5 kHz
Resolution	1 °C; 1 µA; 10 µV / 1 mV / 1.0000 V; 1 Hz /
	from 126 Hz 604 pre-set frequencies
Accuracy	±0.025 % ±3 µA; ±0.05 % ±30 µV /
	±3 mV / ±300 μV; ≤1.1 °C (p. sensor type)
Display	
Power supp.	1 x 9 V or 6 x 1.5 V battery pack
	0 +50 °C, <85 % RH
Dimensions	88 x 168 x 26 mm
Weight	330 g
INCLUDES	

Calibrator, K-type adaptor, pack of batteries, test leads with crocodile clips, carrying case, instruction manual

ITEM NO. ITEM

K-PCE-123 process calibrator

OPTIONAL ACCESSORIES

K-CAL-PCE-123 ISO calibration certificate

PCE-789

Multifunctional Calibrator / Simulator

- simulates and measures current, voltage, frequency, temperature (types: K, J, E, T, R, S, N, L, U, B, C)
- · integrated function generator
- · graphical display with backlight
- · data logging function / powered by rechargeable battery
- · individually created signal waveforms can be displayed





TECHNICAL SPECIFICATIONS

Simulation / generation			Resolution 1 µV					
	Current		(no charge voltage > 15 V)		Accuracy		±0.1 % +5 dgt	
		Range	-4 24 mA	Thermoco	ouples			
'		Resolution	1 μA		Range		depends on type	
		Accuracy	±0.03 % +5 dgt		Resolution		0.1 °C	
<u>z /</u>	Voltage	(max. 1 mA)			Accuracy		depends on type	
		Range	-3 15 V	General				
		Resolution	1 mV	Power s. internal recharg. battery or mains adaptor				
•)		Accuracy	±0.1 % +5 dgt	Environmental conditions				
	Thermocouples		Operation 0 +50 °C, 85 % RH					
		Range	depends on type	Storage -20 +60 °C, 75 % RH				
		Resolution	0.1 °C	Dimens. 214 x 99 x 56 mm				
		Accuracy	depends on type	Weight 650 g				
	Frequency		INCLUDES					
		Range	0.3 20,000 Hz				(turno adaptar) v taat laada	
		Resolution	0.1 Hz		type adaptor, 2 x test leads,			
		Accuracy	0.002 2 Hz	2 x crocodile clips, 2 x measuring tips, software, USB cable, mains adaptor, carrying case, instruction manual				
	Measurement							
	Current			ITEM NO		ITEM		
		Range	-4 24 mA	K-PCE-78	39	multifu	unctional calibrator	
		Resolution	1 µA	ODTIONAL ACCESS		ODIE	DIES	
		Accuracy	±0.1 % +5 dgt	OPTIONAL ACCESSORI				
	Voltage			K-CAL-PCE-789		ISO calibration certificate		
		Range	-3 15 V					

www.pce-instruments.com/english