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## Technical Voltage Calibrator PCE-789

Current Calibrator PCE-789 measures and simulates current and voltage signals and thermocouples / integrates a function generator for specific waveforms / large graphical display with backlight / data logger function

The Current Calibrator PCE-789 is a versatile instrument for measuring and simulating process signals. The Current Calibrator measures and simulates current and voltage signals. The curves of different types of thermocouples are stored on your computer, and because of this you can introduce and display the values in ° C or F. The main feature of this Current Calibrator is the integrated function generator. Apart from the waveforms of sine, triangle, rectangle and cut sane, the Current Calibrator has saved inside other 10 sinusoidal waveforms. Using the software, which is included in the delivery, you can create specific waveforms and store them on the Current Calibrator. Furthermore, this Current Calibrator can give two overlapping frequencies. For its functionality combined with a robust plastic housing, the Current Calibrator can be used in many areas . This Current Calibrator is a useful tool with which you can perform many tasks in areas such as maintenance in the industry, and it can be used by engineers and laboratory technicians in the service sector. This system is supplied by AC adapter and battery allowing mobile use.

- Different signals simulation and measurement
- Integrated function generator
- Graphic display with backlight
- Battery powered
- Own waveforms simulation
- Data logging function

Technical Specifications

Magnitud	Range	Resolution	Accuracy
Generate / Simulate			
Current (no charge voltage >15 V)	-4 ... -0.005 mA	1 $\mu$ A	$\pm$ (0.03 % + 5 digits )
	0.005 ... 4 mA	1 $\mu$ A	$\pm$ (0.03 % + 5 digits )
	4 ... 20 mA	1 $\mu$ A	$\pm$ (0.03 % + 5 digits )
	20 ... 24 mA	1 $\mu$ A	$\pm$ (0.03 % + 5 digits )
Voltage (máa 1 mA)	-3 ... -0.005 V	1 mV	$\pm$ (0.03 % + 5 digits )
	0.005 V ... 10 V	1 mV	$\pm$ (0.03 % + 5 digits )
	10 V ... 15 V	1 mV	$\pm$ (0,03 % + 5 digits )
	-10 ... 70 mV	0.01 mV	0.05 mV
Thermocouples Types: K, J, E, T, R, S, N, L, U, B, C	according to type (see use intructions)	0.1 $^{\circ}$ C	according to type (see use intructions)
Frequency	0.3 ... 99.999 Hz	0.1 Hz	0.002 Hz
	10.00 ... 999.99 Hz	0.1 Hz	0.02 Hz
	1000.0 ... 9999.9 Hz	0.1 Hz	0.2 Hz
	10,000 ... 20,000 Hz	0.1 Hz	2 Hz
Measurement			
Current	-4 ... -0.005 mA	1 $\mu$ A	$\pm$ (0.03 % + 5 digits )
	0.005 ... 4 mA	1 $\mu$ A	$\pm$ (0.03 % + 5 digits )
	4 ... 20 mA	1 $\mu$ A	$\pm$ (0.03 % + 5 digits )
	20 ... 24 mA	1 $\mu$ A	$\pm$ (0.03 % + 5 digits )
Voltage	-3 ... 0.005 V	1 mV	$\pm$ (0.03 % + 5 digits )
	0.005 V ... 10 V	1 mV	$\pm$ (0.03 % + 5 digits )
	10 V ... 15 V	1 mV	$\pm$ (0.03 % + 5 digits )
Thermocouples Types: K, J, E, T, R, S, N, L, U, B, C	according to type (see use intructions)	0,1 $^{\circ}$ C	according to type (see use intructions)

#### General observations

Power supply	internal acumulator o AC mains adapter
Dimensions	214.0 x 98.7 x 56.0 mm
Weight	650 g
Environmental conditions	Operating: 0 ... 50 $^{\circ}$ C, 85 % R.H.. Stored: -20 ... 60 $^{\circ}$ C, 75 % R.H..

## Delivery content

1 x Current Calibrator PCE-789

1 x K-type adapter

2 x test leads or points

2 x crocodile clips

1 x software

1 x USB cable

1 x mains adapter

1 x carrying case

1 x instructions