

Calibrator PCE-LOC 10



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Process calibrator for 0/4 ... 20-mA signals / Simulation of active and passive sensors / 24V DC encoder / Measurement of process currents possible

The process calibrator is used to simulate 0/4 ... 20-mA signals. The process calibrator can be used to calibrate display devices, data loggers, process recorders etc. The process calibrator can also be used to measure the process signal 0/4 ... 20-mA to test sensors and transmitters. The process calibrator is able to simulate both active sensors (source) and passive sensors (sink).

The process value can be set directly using the buttons on the process calibrator. However, it is also possible for the process calibrator to run an automatic ramp. As a further feature, the process calibrator can also provide 24V DC for sensors in order to test them in the process before commissioning. The output current from the sensor can be measured at the same time.

- ▶ Simulation of 0/4 ... 20-mA
- ▶ For active and passive sensor simulations
- ▶ Large LCD
- ▶ Easy handling
- ▶ Ramp function
- ▶ 24V sensor supply possible

Specifications

Current simulation (active)

(max. burden 1 kOhm)

Area	Resolution Accuracy
0 ... 22-mA	0.001- ± 0.05% of sim. value + 4 µA mA

Current simulation (passive)

(max. burden 1 kOhm / max. 5 ... 25V DC)

Area	Resolution Accuracy
0 ... 22-mA	0.001- ± 0.05% of sim. value + 4 µA mA

Voltage transmitter f. current loop

Area	Resolution Accuracy
24V DC / 25-mA	± 10%

Voltage measurement

Area	Resolution Accuracy
-0.2 ... 28V	1 mV ± 0.02% of meas. + 2 mV

Current measurement

Area	Resolution Accuracy
-1 ... 22-mA	0.001- ± 0.02% of meas. + 4 µA mA

Current measurement

(Loop current with voltage transmitter function)

Area	Resolution Accuracy
0 ... 22-mA	0.001- ± 0.02% of meas. + 4 µA mA

More specifications

Power supply	2 x 1.5V AA batteries
Max. Tension	30V
Operating conditions	0 ... 50°C / 32 ... 122°F, < 80% RH
Storage conditions	-10 ... 60°C / 14 ... 140°F, < 95% RH
Dimensions	180 x 90 x 47 mm / 7.1 x 3.5 x 1.9 in
Weight	Approx. 500 g / 1.1 lbs

Subject to change

