

PSC-4000

Process Signal Calibrator

Features:

- ▲ Reads and simulates process control signals
- ▲ Memory for three (3) calibration points in each range
- ▲ Multiple input/output ranges for current and voltage modes
- ▲ Built-in 24 VDC source for powering two-wire transmitters
- ▲ Accuracy of 0.025% FS \pm 1 LSD
- ▲ Large 32 character dot matrix display
- ▲ Test leads, carrying case, 4 AA batteries, NIST Certificate, and instruction manual included



The Martel Electronics PSC-4000 Process Calibrator is a portable, hand-held, full function voltage and current calibrator with the capability to both read and simulate common process control signals.

The PSC-4000 incorporates multiple input/output ranges for both current and voltage operating modes. When operated in the current mode, the calibrator can source, simulate, or read over a 0 to 24 mA range, with 0.01 mA resolution. It can also supply 24 VDC to power a two-wire transmitter, while simultaneously reading back its output both in milliAmps or % of full scale. When operated in the voltage range, the PSC-4000 can read or source over two ranges, 0 to 20.00 V, or 0 to 200.0 mV.

For convenience, up to three (3) calibration points can be stored in memory for each voltage or current range. These calibration points are non-volatile, and will remain in memory until the user changes them.

Specifications

Input/Output Ranges

Current mode

0 to 24.00 mA;
-25%/+125%

Voltage mode

0 to 200.0 mV
0 to 20.00 V

Accuracy

\pm 0.025% of FS, \pm 1 LSD;
input/output

Input Impedance

Current mode

20 Ohms

Voltage mode

1 MegOhm

Load Drive

Current mode

up to 1,000 Ohms

Voltage mode

\pm 20 mA

Temperature Stability

\pm 0.01%/°C of FSR

Environmental

Operating temperature

0 to 50 °C

Storage temperature

-20 to +60 °C

Display

32 character; 2 x 16
dot matrix

Keypad

3x3 embossed domed keys

Power Requirements

4- AA cells, or optional AC
adapter

Battery life

25 hours

Read mode

10 hours (20 mA source)

Source mode

Dimensions

7"H x 3.8"W x 1.6"D

Accessories

Ni-Cad charger

Ordering Information

Process Signal Calibrator
AA Ni-Cad Batteries (4 req'd)
AC Adapter/Charger

PSC-4000
10077
1001-9V

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