



PSC-9003

Precision Process Signal Calibrator with Simultaneous Source and Read Capability

- Simultaneously sources and reads a variety of process signals (V, mV, mA, Hz)
- 0.05% basic accuracy on all ranges
- Up to 9 calibration points can be stored on each range
- Built-in 24 volt loop supply
- Direct Keyboard data entry
- All inputs and outputs protected against overloads

Each Unit Includes:

Test leads, large carrying case, 4 AA alkaline batteries, NIST Certificate, and instruction manual

The Martel PSC-9003 is a full function process signal calibrator capable of sourcing and reading all common process signals such as volts, millivolts, milliamps and frequency. This wide range of capability makes the PSC-9003 ideal for calibrating or monitoring transmitters, recorders, flow instrumentation, data acquisition equipment or any other process instruments requiring these types of signal inputs.

Housed in a rugged hand-held case, the PSC-9003 features 0.05% basic accuracy on all ranges. Up to nine (9) calibration setpoints can be stored in non-volatile memory for each of the ranges. An auto-step function allows the user to automatically step through each of the stored setpoints for a particular range at a predetermined interval.

An internal 24 volt loop power supply allows the unit to power two-wire transmitters while reading the current loop. As a simulator, the PSC-9003 can drive current loops up to 1000 ohms and can source up to ± 1 mA when operated in the voltage mode.

Specifications

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|--|---|
| Input/Output Ranges: | Volts: 0 to 20.000 mV: 0 to 200.00 mA: 0 to 24.000 KHz: .1 to 10 KHz Hz: 1 to 1000 Hz CPM: 1 to 1000 CPM |
| Accuracy (% of FS): | $\pm .05\% \pm 1\text{LSD}$ |
| Input z (Volts/Freq.): | 1 Meg Ohm typical |
| (Current): | 20 ohms typical |
| Output Current (Voltage Range): | ± 1.0 mA |
| Voltage Compliance (Current Range): | 24V $\pm 10\%$ |
| Input Sensitivity (Freq.): | 1V to 100 V |
| Output Voltage (Freq.): | 5V p-p Square Wave |
| Stability: | $\pm 0.005\%/^{\circ}\text{C}$ of FS reading |
| Oper. Temp.: | 32 to 122°F / 0 to 50°C |
| Display: | 32 Character, 2 x 16 format dot matrix |
| Power Supply: | 4 AA Alkaline Cells or 4 AA Ni-Cd Cells Optional AC Adaptor/Ni-Cd Charger Available |
| Size: | 7" x 3.8" x 1.6" HWD |
| Weight: | 15 oz. |

MODEL NO.

PSC-9003
10077
1001-9V

DESCRIPTION

Process Signal Calibrator
AA Ni-Cd Batteries (requires 4)
Optional A/C Adapter/Charger