

IVC-222HPH Voltage/Current Calibrator

MS-420 Mini-Source Portable Calibrator

IVC-222HPH Voltage/Current Calibrator

Cal Lab accuracy in a hand-held calibrator

Features:

- ▲ Remarkable 0.015% of reading accuracy
- ▲ Four ranges: 200 mV, 2 V, 20 V, and 24 mA
- ▲ Intuitive, easy-to-use controls
- ▲ RS-232 interface allows computer control
- ▲ Built-in 24 V supply can drive 4 to 20 mA loops over 1,000 Ohms
- ▲ Rugged, lightweight, hand-held unit
- ▲ Includes test leads, carrying case, 9 V battery, NIST Certificate, and instruction manual



The Martel Electronics IVC-222HPH Voltage/Current Calibrator is a general purpose current and voltage source that can be used in engineering, manufacturing, test, and process control applications. It combines both digital and analog circuitry to achieve its' rated specifications in a small, reliable package.

The IVC-222HPH has the capability to store and recall up to two setpoint values using the SP1 and SP2 keys. An RS-232 port accessed via a custom cable (available from Martel) allows the calibrator to be computer controlled for automated testing.

Specifications

Output Range

Voltage	200 mV, 2 V, 20 V
Current	24 mA

Resolution

Voltage	0.01 mV, 0.0001 V, 0.001V
Current	0.001 mA

Accuracy	±0.015% of reading, ±2 count; 18 °C to 28 °C
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Temp. Stability	±0.005% FS/°C
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Load Capability

Voltage	±1 mA for rated accuracy
Current	1,000 Ohms
Capacitive	no limitations (voltage mode only)

Output Protection	current limited internal RESET
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Power Supply	9 Volt alkaline battery or optional NiCd
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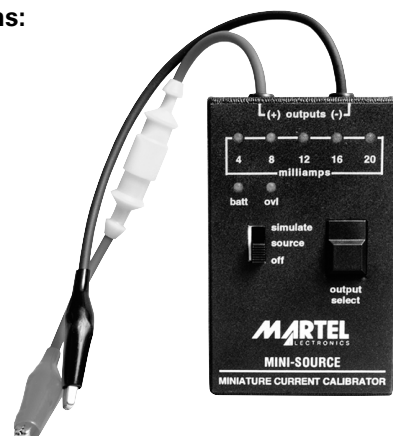
Mechanical Dimensions

Size	1.43" x 3.15" x 5.7"
Weight	12 ounces

MS-420 Mini-Source Portable Calibrator

Typical Applications:

- ▲ Chart recorder
- ▲ Panel meter
- ▲ Data acquisition
- ▲ Other process instruments



The Martel Electronics MS-420 Mini-Source Portable Calibrator is a multi-purpose process loop tool that offers high accuracy in an ultra-small, rugged package.

A single pushbutton selects one of five current outputs (4, 8, 12, 16, or 20 mA), which can drive up to 300 Ohms, or can act as a 2-wire simulator with an external loop power supply of up to 30 VDC.

Each unit is provided with a 9 V battery, NIST Certificate, and instruction manual.

Specifications

Output

Five current steps; 4, 8, 12, 16, and 20 mA ±0.075% of FS

Accuracy

Voltage Compliance

Source	Internal 9 V battery
Simulate	External supply; up to 30 VDC

Power Supply

Battery Life

Temperature Range

Operating	0 °C to +50 °C
Storage	-25 °C to +60 °C

Mechanical Dimensions

Size	3.8" x 2.4" x 1.0"
Weight	6 ounces

Output Terminations	Two (2), 8" leads with alligator clips
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