

M V X

Multi-calibrator for process signals

- Reads Millivolts, Volts and Milliamps
- Sources Millivolts, Volts and Milliamps
- Powers, reads and simulates 2-wire transmitters
- Simultaneous readings of input and output
- Fixed calibration steps
- Automatic signal ramping





M V X

Standard specifications

SPECIFICATIONS

Function	Range	Resolution	Accuracy % of span	Remarks
Measure mVolts	0-120 mV	0.01 mV	± 0.017% ± 1digit	R-input > 20 MOhms
Output mVolts	0-120 mV	0.01 mV	± 0.017% ± 1digit	R-output 0.2 Ohms
Measure Volts	0-120 V	0.01 V	± 0.04% ± 1digit	R-input 1 MOhms
Output Volts	0-12 V	0.001 V	± 0.017% ± 1digit	R-output 0.2 Ohms
Measure mA	0-52 mA	0.01 mA	± 0.04% ± 1digit	R-input 3.5 Ohms fused
Output mA	0-24 mA	0.01 mA	± 0.04% ± 1digit	R-max. 900 Ohms
Transmitter Sim	0-24 mA	0.01 mA	± 0.04% ± 1digit	V-max ext. 56Volts

SPECIAL FEATURES

Special functions

1. Fixed steps (programmable, 10% or 20% divisions)
2. Signal ramping (up/dwell/down)

Calibration reference

22°C ±1

Calibration

Traceable to International Standards with correlation to NIST

Long term stability

0.02% / year of span

Indicated accuracies

Specified for 15°C to 35°C. Outside these limits:
± 1 lsd max. on zero and ± 0.001% / °C of span

Operating temperature

-10°C to +50°C (14°F to 122°F)

Storage temperature

-20°C to +70°C (-4°F to 158°C)

Warm up time

2 minutes to rated accuracy

Relative humidity

0 to 90% non-condensing

Input/output protection

70 volts on millivolt input
30 volts on outputs
200 volts on volts input

Input/Output isolation

500 VDC continuous

Output Voltage

Protected by load monitor. Displays "load resistance too low"

Output Current

Protected by load monitor. Displays "check loop"

Transmitter power supply

24 VDC output current limited at 34 mA

Read-out

Simultaneous read-out of input and output values dialogue in English

Batteries

4 x 1.5 Volt, type R14 (Size C) alkaline or rechargeable NiCd

Battery life

22 hours with alkaline batteries at 20°C (68°F) 7 hours with 20 mA load

Low battery indication

Flashes "bat".

External power supply

By optional charger/line adaptor p/n 13603 230 or 110V - 50/60Hz

Connections

Suitable for 4mm test plugs

Protection

IP 53

Housing

Textured high-impact ABS plastic

Size

200 x 117 x 32 mm (8.0" x 4.7" x 1.3") without carrying case

Weight

0.9kg (2 pounds) including batteries, carrying case and test leads

ORDERING INFORMATION

Model MVX (includes carrying case, alkaline batteries, instruction manual, calibration certificate, spare fuse and set of test leads)

Optional charger/line adaptor p/n 13603.
Please state line voltage - 230V or 110V.

Continuing development sometimes necessitates
specification changes without notice.



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