

# MX



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



## Standard specifications

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

SPECIAL FEATURES	
<p><b>Special functions</b> 1. Fixed steps (programmable, 10% or 20% divisions) 2. Signal ramping (up/dwell/down)</p> <p><b>Calibration reference</b> 22°C ±1</p> <p><b>Calibration</b> Traceable to International standards with correlation to NIST</p> <p><b>Long term stability</b> 0.02% / year of span</p> <p><b>Indicated accuracies</b> Specified for 15°C to 35°C. Outside these limits: ± 1 lsd max. on zero and ± 0.001% / °C of span</p> <p><b>Operating temperature</b> -10°C to + 50°C (14°F to 122°F)</p> <p><b>Storage temperature</b> -20°C to + 70°C (-4°F to 158°C)</p> <p><b>Warm up time</b> 2 minutes to rated accuracy</p> <p><b>Relative humidity</b> 0 to 90% non-condensing</p> <p><b>Input/output protection</b> 70 volts on millivolt input 30 volts on outputs 200 volts on volts input</p> <p><b>Input/Output isolation</b> 500 VDC continuous</p> <p><b>Output Voltage</b> Protected by load monitor. Displays "load resistance too low"</p> <p><b>Output Current</b> Protected by load monitor. Displays "check loop"</p> <p><b>Transmitter power supply</b> 24 VDC output current limited at 34 mA</p>	<p><b>Read-out</b> Simultaneous read-out of input and output values dialogue in English</p> <p><b>Batteries</b> 4 x 1.5 volt, type R14 (Size C) alkaline or rechargeable NiCd</p> <p><b>Battery life</b> 22 hours with alkaline batteries at 20°C (68°F) 7 hours with 20 mA load</p> <p><b>Low battery indication</b> Flashes "bat".</p> <p><b>External power supply</b> By optional charger/line adaptor p/n 13603 230 or 110V - 50/60Hz</p> <p><b>Connections</b> Suitable for 4mm test plugs</p> <p><b>Protection</b> IP 53</p> <p><b>Housing</b> Textured high-impact ABS plastic</p> <p><b>Size</b> 200 x 117 x 32 mm (8.0" x 4.7" x 1.3") without carrying case</p> <p><b>Weight</b> 0.9kg (2 pounds) including batteries, carrying case and test leads</p>
<b>ORDERING INFORMATION</b>	
<p>Model MVX (includes carrying case, alkaline batteries, instruction manual, calibration certificate, spare fuse and set of test leads)</p> <p>Optional charger/line adaptor p/n 13603. Please state line voltage - 230V or 110V.</p> <p><b>Continuing development sometimes necessitates specification changes without notice.</b></p>	