

Strain Gauge & Potentiometer Transmitters

Field Configuration with Local Display, Plug-in Type

MXLCF Strain gauge input

- ≤ 10 msec. response time
- Auto tare feature controlled by PLC or DCS



Compact Plug-in Design

M2MS Potentiometer input, Single output

W2MS Potentiometer input, Two isolated outputs

- 0.5V constant voltage excitation allows using any resistance rating of 100 Ω to 10 k Ω
- Optional 25 msec. response time selectable
- Two independent ranges can be specified with the signal splitter.



Ultra-high Speed Response, Remote Sensing, Plug-in Type

LCF Strain gauge input

- Six-wire bridge can be used to compensate for lead resistance variations due to temperature changes.
- ≤ 300 μ sec. response (2 kHz, -3 dB)



Super-slim Type

M3SMS Potentiometer input

- 12 mm (.47") wide
- Optional 25 msec. response time selectable
- AC-DC universal power input



Compact Plug-in Design

M2LCS Strain gauge input

- Compatible with a bridge type strain gauge
- Optional 25 msec. response time selectable



Low-profile, Low Cost Type

M5MS Potentiometer input, Single output

W5MS Potentiometer input, Two isolated outputs

- 41 mm (1.6") deep
- Optional 25 msec. response time selectable
- Two independent ranges can be specified with the signal splitter.



SPECIFICATIONS

Series	MX / M Series		M2 / W2 Series		M3S Series	M5 / W5 Series
Single output model	MXLCF	LCF	M2LCS	M2MS	M3SMS	M5MS
Dual output model				W2MS		W5MS
Input	1.0mV/V, 3.0mV/V, 10.0mV/V, 30.0mV/V	Specific rating up to 20 mV/V	Specific rating up to 20 mV/V	100 Ω min. 10k Ω max.	100 Ω min. 10k Ω max.	100 Ω min. 10k Ω max.
Excitation	0.1-12 V, 120mA	2-10V, 120mA	2-10V, 35mA	----	----	----
DC current output (Specific range of)	Field-selectable: 0-20 mA	0-20 mA e.g. 4-20 mA	0-20 mA e.g. 4-20 mA		0-20 mA e.g. 4-20 mA	0-20 mA e.g. 4-20 mA
Minimum span	----	1mA	1mA		1mA	1mA
Load resistance	$\leq 600\Omega$ at 4-20 mA	$\leq 750\Omega$ at 4-20 mA	$\leq 750\Omega$ at 4-20 mA		$\leq 550\Omega$ at 4-20 mA	$\leq 550\Omega$ at 4-20 mA
Load resistance, Out 2	----	----	$\leq 350\Omega$ at 4-20 mA		----	$\leq 550\Omega$ at 4-20 mA
DC voltage output (Specific range of)	Field-selectable: $\pm 1V, \pm 10V$	-10 to +12 V e.g. 1-5 V, 0-10 V	-10 to +12 V (+10 V for Output 2) e.g. 1-5 V, 0-10 V		-10 to +11 V e.g. 1-5 V, 0-10 V	0-10 V (-10 to +12 V for W5) e.g. 1-5 V, 0-10 V
Minimum span	----	5mV	5mV		5mV	1V (5mV for W5)
Load resistance	$\geq 1k\Omega, \geq 10k\Omega$	$\geq 5k\Omega$ at 1-5 V	$\geq 5k\Omega$ at 1-5 V		$\geq 5k\Omega$ at 1-5 V	$\geq 500\Omega$ at 1-5 V
Power input	24 Vdc, 110 Vdc or 100-240 Vac	100, 110, 120 Vac 200, 220, 240 Vac	24 Vdc or 100-240 Vac		24-240 Vdc 100-240 Vac	24 Vdc or 100-240 Vac
Accuracy	$\pm 0.2\%$	$\pm 0.1\%$	$\pm 0.1\%$			
Response (0-90%)	≤ 10 msec.	≤ 300 μ sec.	≤ 0.5 sec. standard; 25 msec. optional			
Operating temperature	-5 to +55°C (23 to 131°F) (Max. 60°C or 140°F for LCF; Min. -10°C or 14°F for M3)					
Insulation resistance	$\geq 100M\Omega$ with 500 Vdc					
Dielectric strength	2000 Vac @1 minute (input to output to power to ground)					2000 Vac @1 min. (DC) 1500 Vac @1 min. (AC)
CE marking	Yes		Yes		Yes	Yes (24 Vdc powered)
Safety approval	----		----	UL/C-UL nonincendive	----	----