

Four-Wire Fixed Range Isolators/DC mV, V, mA Input

Compact Plug-in Design



- M2VS** Single output
M2VF Single output, $\leq 180 \mu\text{sec.}$ response
W2VS Two isolated outputs
W2VF Two isolated outputs, $\leq 180 \mu\text{sec.}$ response
- Wide selection of input and output ranges
 - Optional 25 msec. response time selectable for M2VS and W2VS
 - 30 $\mu\text{sec.}$ response type available (model: M2VF2)
 - Two independent ranges can be specified with the signal splitter.

Super-slim Type

M3SVS

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



Low-profile, Low Cost Type

- M5VS** Single output
M5MV Single output, narrow span
M5VF Single output, $\leq 150 \mu\text{sec.}$ response
W5VS Two isolated outputs
W5FV Two isolated outputs, field-selectable I/O

- 41 mm (1.6") deep
- Two independent ranges can be specified with the signal splitter.



SPECIFICATIONS

Series	M2 / W2 Series		M3S Series	M5 / W5 Series		
Single output model	M2VS	M2VF	M3SVS	M5VS/M5MV	M5VF	
Dual output model	W2VS	W2VF		W5VS		W5FV
DC voltage input (Specific range of)	-300 to +300 V	-300 to +300 V	-300 to +300 V	-300 to +300 V ($\pm 100\text{mV}/\text{M5MV}$)	-30 to +30 V	Field-selectable 0-60 mV, 0-100 mV, 0-1 V, 0-5 V, 1-5 V 0-10 V, $\pm 5\text{V}$, $\pm 10\text{V}$
Minimum span	3mV	1V	3mV	100mV (5mV/M5MV)	1V	0-1 V, 0-5 V, 1-5 V 0-10 V, $\pm 5\text{V}$, $\pm 10\text{V}$
DC current input	Resistor attached to the input terminals. 4-20 mA, 0-10 mA, 10-50 mA, etc.		Resistor incorporated 4-20 mA, etc.	Resistor incorporated 4-20 mA, 0-10 mA, 10-50 mA, etc.		Field-selectable 4-20 mA, 0-20 mA 0-10 mA
DC current output (Specific range of)	0-20 mA e.g. 4-20 mA	-10 to +20 mA e.g. $\pm 1\text{mA}$	0-20 mA e.g. 4-20 mA	0-20 mA e.g. 4-20 mA		Out 1: Field-selectable 4-20 mA, 0-20 mA
Minimum span	1mA	1mA	1mA	1mA		Out 2: Fixed
Load resistance	$\leq 750\Omega$ at 4-20 mA $\leq 350\Omega$ at 4-20 mA		$\leq 550\Omega$ at 4-20 mA ----	$\leq 550\Omega$ at 4-20 mA $\leq 550\Omega$ at 4-20 mA		$\leq 550\Omega$ $\leq 550\Omega$
DC voltage output (Specific range of)	-10 to +12 V (+10V 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 W5VS) e.g. 1-5 V, 0-10 V		Out 1: Field-selectable 0-10 V, 0-5 V, 1-5 V $\pm 5\text{V}$, $\pm 10\text{V}$
Minimum span	5mV		5mV	1V (5mV for W5VS)		Out 2: Fixed
Load resistance	$\geq 5\text{k}\Omega$ at 1-5 V		$\geq 5\text{k}\Omega$ at 1-5 V	$\geq 500\Omega$ at 1-5 V		$\geq 500\Omega$ at 1-5 V
Power input	24 Vdc or 100-240 Vac		24-240 Vdc 100-240 Vac	24 Vdc or 100-240 Vac		
Accuracy	$\pm 0.1\%$	$\pm 0.1\%$	$\pm 0.1\%$	$\pm 0.1\%$	$\pm 0.1\%$	$\pm 0.1\%$
Response time (0-90%)	≤ 0.5 sec. 25 msec. optional	$\leq 180 \mu\text{sec.}$	≤ 0.5 sec. 25 msec. optional	≤ 0.5 sec. 25 msec./ ≤ 1 msec.	$\leq 150 \mu\text{sec.}$	≤ 0.5 sec.
Operating temperature	-5 to +55°C (23 to 131°F) (Min. -10°C or 14°F for M3)					
Insulation resistance	$\geq 100\text{M}\Omega$ with 500 Vdc					
Dielectric strength	2000 Vac @1 minute (input to output to power to ground)			2000 Vac @1 minute (DC powered M5) 1500 Vac @1 minute (AC powered M5)		
CE marking	Yes		Yes	Yes (24 Vdc powered)		
Safety approval	UL & C-UL nonincendive		----	----		