

Four-Wire Temperature Transmitters

Compact Plug-in Design

- M2TS** Thermocouple input, Single output
- W2TS** Thermocouple input, Two isolated outputs
- M2RS** RTD input, Single output
- W2RS** RTD input, Two isolated outputs

- Linearization, burnout protection, cold junction compensation (T/C input) standard
- Optional 25 msec. response time selectable
- Two independent ranges can be specified with the signal splitter.



Super-slim Type

- M3SRS** RTD input
- 12 mm (.47") wide
- Linearization, burnout protection, cold junction compensation (T/C input) standard
- Optional 25 msec. response time selectable
- AC-DC universal power input



Low-profile, Low Cost Type

- M5TS** Thermocouple input, Single output
- W5TS** Thermocouple input, Two isolated outputs
- M5RS** RTD input, Single output
- W5RS** RTD input, Two isolated outputs
- 41 mm (1.6") deep
- Linearization, burnout protection, cold junction compensation (T/C input) standard
- Optional 25 msec. response time selectable
- Two independent ranges can be specified with the signal splitter.



SPECIFICATIONS

Series	M2 / W2 Series		M3S Series	M5 / W5 Series	
Single output model	M2TS	M2RS	M3SRS	M5TS	M5RS
Dual output model	W2TS	W2RS		W5TS	W5RS
Input	K, E, J, T, B, R, S, N	Pt100, Pt50, Ni508.4	Pt100, Pt50, Ni508.4	K, E, J, T, B, R, S, N	Pt100, Pt50, Ni508.4
DC current output (Specific range of)	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	
Load resistance	≤750Ω at 4-20 mA		≤550Ω at 4-20 mA	≤550Ω at 4-20 mA	
Load resistance, Out 2	≤350Ω at 4-20 mA		----	≤550Ω at 4-20 mA	
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 W5) e.g. 1-5 V, 0-10 V	
Minimum span	5mV		5mV	1V (5mV for W5)	
Load resistance	≥5kΩ at 1-5 V		≥5kΩ at 1-5 V	≥500Ω 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	±0.4%	±0.2%	±0.2%	K, E, J: ±0.1% FS or 0.2°C T, N: ±0.2% FS or 0.2°C B, R, S: ±0.3% FS	±0.2%
Response time (0-90%)	≤0.5 sec. standard; 25 msec. optional				
Operating temperature	-5 to +55°C (23 to 131°F) (Min. -10°C or 14°F for M3)				
Insulation resistance	≥100MΩ 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		----	----	