

TEMPERATURE

RANGEABLE PUSH BUTTON RTD TRANSMITTERS SEM203, SEM710 SERIES



DESCRIPTION

The **SEM203 Series Push Button Transmitters** are field rangeable, two-wire 4-20 mA transmitters used with Type 81 100Ω RTD sensors. The transmitters can be configured with a simple push button operation. The unit features selectable ranges, loss-of-sensor response, user trim for both 4 mA and 20 mA points, and reverse polarity protection. A bright LED provides visual indication of sensor fault and programming menus.

The **SEM710 Series Indicating Transmitter** incorporates all of the features of the **SEM203** but is instead configured through a USB Port and incorporates a bright red LED display for visual indication of temperature configurable in °F or °C.



SEM203



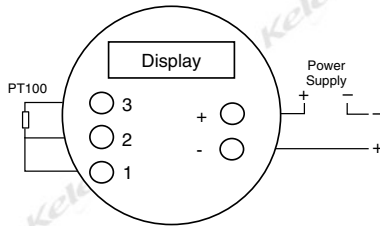
SEM710



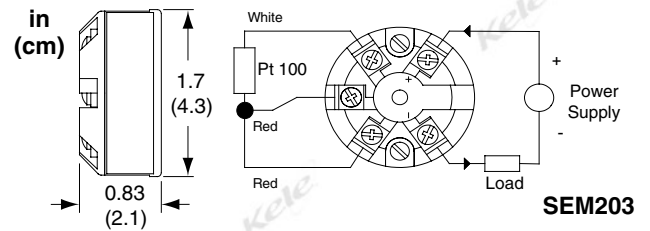
FEATURES

- Push button configuration
- USB Port configuration (SEM710 only)
- Programmable loss-of-sensor response
- Adjustable fine tuning on zero and span
- Input/output isolation
- LED status indication
- LED Display (SEM710 only)
- High stability
- CE approved

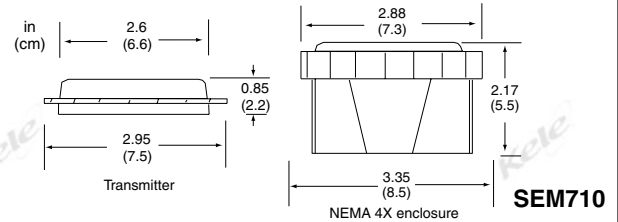
WIRING - SEM710



DIMENSIONS



SEM203



SEM710

TEMPERATURE

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SPECIFICATIONS

Supply Voltage	8-30 VDC	Sensing Element	100Ω platinum RTD (two- or three-wire) TCR 0.00385 Ω/Ω/°C
Signal Output Limits	4-20 mA, two-wire, loop-powered Low: 3.8 mA; High: 21.5 mA	SEM203	
Maximum Output Impedance	600Ω @ 24 VDC	SEM710	
Accuracy		Operating Temperature	-40° to 185°F (-40° to 85°C)
RTD	0.18°F (0.1°C) ±0.05% of reading	Operating Humidity	10% to 90% non-condensing
Stability		Enclosure	
RTD	±0.005% full scale	SEM203	ABS plastic
Rangeability		SEM710	Polycarbonate
RTD	-328° to 1562°F (-200° to 850°C), Minimum span 45°F (25°C)	Wiring Terminations	Screw terminal
		Weight	0.07 lb (0.03 Kg)
		Approvals	CE (EN61326)
		Warranty	18 months

ORDERING INFORMATION

MODEL	DESCRIPTION
SEM203P	Push button transmitter for 100Ω 385 curve RTD
SEM710	Indicating temperature transmitter for 100Ω 385 curve RTD