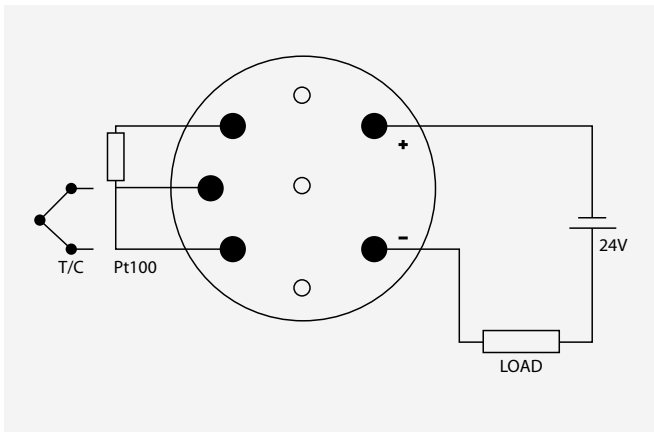


SEM110P

Temperature Transmitter



The SEM 110 is a head-mounted programmable transmitter suitable for RTD Pt100 platinum resistance temperature sensor inputs. The SEM110 transmitter is loop powered and converts the input signal into a 4 to 20mA current output. The fixed programming ranges are detailed in the table below.



Environmental Conditions

Specifications range	0°C to +70°C
Calibration temperature	+20°C
Ambient Storage Temperature	(-40 to 100) °C
Ambient Humidity Range	(0 to 95) % RH noncondensing

Mechanical Specifications

Dimensions	Ø53.0 mm x 21.3 mm
Weight approx	50 g

Input Specifications (SEM110P - Pt100 Version)

Input	Platinum Resistor to BS 1904/DIN 43760
Accuracy	± 0.1 °C ± 0.1 % rdg
Range	(-200 to 850) °C
Minimum Span	10 °C

Output Specifications

Output	(4 to 20) mA (max current 30 mA)
Supply	(10 to 45) VDC. reverse polarity protected 30 V max. IS versions
Ripple	50 µA/V (measured at 1 V ripple 100 HZ)
Sensitivity	1 µA/VDC.
Zero Drift	± 2 µA/°C
Span Drift	± 0.01 %/°C
Maximum Loop Resistance	700 R @ 24 V

Approvals

EMC	EN 61326
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Temperature Ranges °C

-100°C / +100°C	-100°C / 0°C	-50°C / 0°C	-50°C / +50°C	-30°C / +35°C
0°C / +50°C	0°C / +100°C	0°C / +150°C	0°C / +200°C	0°C / +250°C
0°C / +300°C	0°C / +400°C	0°C / +500°C	0°C / +600°C	0°C / +150°C