

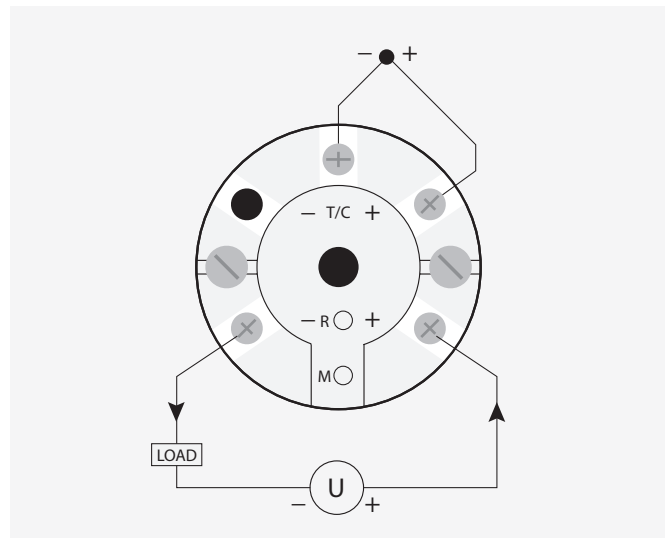
# SEM206TC

## Temperature Transmitter

Temperature Transmitters



The SEM206TC is a head mount transmitter suitable for thermocouple input. The transmitter is loop powered and converts the input signal into a 4 to 20mA output. The SEM206TC is configured via PC which allow the selection of the range, units and sensor error burnout protection



### Connections:

Thermocouple Input:	
Sensor	Range (°C)
K	-200 - +1370
J	-100 - +1200
E	-200 - +1000
N	-180 - +1300
T	-200 - +400
R	-10 - +1760
S	-10 - +1760

# SEM206TC

## Temperature Transmitter

### Environmental Conditions

<b>Specifications range</b>	-40°C to +85°C
<b>Calibration temperature</b>	+20°C
<b>Ambient Storage Temperature</b>	(-50 to 100) °C
<b>Ambient Humidity Range</b>	(10 to 90) % RH noncondensing

### Mechanical Specifications

<b>Dimensions</b>	Ø43.0 mm x 21.3 mm
<b>Weight approx</b>	40 g

### Common Specifications

<b>Update time</b>	500 ms
<b>Response Time</b>	1 second
<b>Start up time</b>	Within 8 seconds ( I out < 4 mA during start up)
<b>Warm-up time</b>	1 minute to full accuracy
<b>Power Supply</b>	(12 to 30) Volts dc

### Input Specifications - RTD (PT100)

<b>Type K</b>	-200°C to +1370°C ± 0.1% of F.S. ± 0.5 °C (plus any sensor error)
<b>Type J</b>	-100°C to +1200°C ± 0.1% of F.S. ± 0.5 °C (plus any sensor error)
<b>Type E</b>	-200°C to +1000°C ± 0.1% of F.S. ± 0.5 °C (plus any sensor error)
<b>Type N</b>	-180°C to +1300°C ± 0.1% of F.S. ± 0.5 °C (plus any sensor error)
<b>Type T</b>	-200°C to +400°C ± 0.2% of F.S. ± 0.5 °C (plus any sensor error)
<b>Type R</b>	-10°C to +1760°C ± 0.1% of F.S. ± 0.5 °C (plus any sensor error)
<b>Type S</b>	-10°C to +1760°C ± 0.1% of F.S. ± 0.5 °C (plus any sensor error)

### Output Specifications

<b>Output Type</b>	2 wire (4 to 20) mA current loop
<b>Output range</b>	(4.0 to 20.0) mA
<b>Output Connection</b>	Screw Terminal
<b>Maximum output</b>	21.5mA (in high burnout condition)
<b>Minimum output</b>	<3.8 mA (in low burnout condition)
<b>Accuracy</b>	(mA output /2000) or 5 uA (Whichever is the greater)
<b>Loop Voltage effect</b>	± 0.2 uA / V
<b>Thermal drift</b>	± 2 uA / °C Typically ± 2 uA / °C Max
<b>Maximum output load</b>	[(Vsupply-12)/20] K Ohms (Example 600 ohms @ 24 V)

### Approvals

EMC

EN 61326