



- ◆ Low cost
- ◆ Two wire, 4-20mA
- ◆ Pt100 input
- ◆ Terminal head mounting
- ◆ EMC compliant
- ◆ Supply 10 to 30V dc
- ◆ “One shot” digital programming, without “pots”

The SEM 203P, DIN block, RTD temperature transmitter from Labfacility offers digital technology at low cost. Using digital, “one-shot” programming, the transmitter can be quickly and easily scaled over the range -200°C to 850°C without the need for a PC. Stock requirement is thereby reduced to a single product. The novel programming procedure is carried out with a single push-button and LED confirmation: there is no requirement for links, soldering, potentiometer adjustments or software. The only requirement is for a resistance box connected to the input terminals.

Accepting any standard 3 wire Pt100 sensor, the input signal is converted into a 4-20mA output which is linear with temperature. Drift-free digital linearisation ensures high accuracy and high stability over the long term and with ambient temperature variations. Overall accuracy is between $\pm 0.2^{\circ}\text{C}$ and $\pm 0.4^{\circ}\text{C}$ of reading depending on the programmed range.

The transmitter is linearised to BS EN 60751 (IEC 751) and is CE marked for full EMC compliance with BS EN 5008-1/2. The SEM 203P incorporates LED indication of sensor failure.

Specifications

Input	pt100, 2/3 wire, IEC751, 100 Ohms @ 0°C
Range	-200°C to 850°C
Accuracy	$\pm 0.1^{\circ}\text{C}$ $\pm 0.1\%$ of reading
Output	4-20mA, loop powered
Loop supply	10-35V dc, reverse connection protected
Loop resistance	700 Ohm @ 24V
Ambient temperature	-40°C to 85°C
Dimensions	43mm dia x 21.2 holes 5.5mm dia x 33mm centre.



Certificate No. 4746