

- PUSH BUTTON CALIBRATION
- RTD SENSOR INPUT
- IN-HEAD MOUNTING
- DRIFT FREE DIGITAL LINEARIZATION
- RE-RANGEABLE WITHOUT A PC
- LED OVER-RANGE INDICATION



SEM203 TEMPERATURE TRANSMITTER with PUSH BUTTON CALIBRATION

INTRODUCTION

The **SEM203 series** in-head transmitter incorporates the latest digital technology ensuring accurate drift free operation. The transmitter connects to any standard RTD temperature sensor and provides a linear 4-20mA DC output. Since the Zero and Span are set to conform to a particular sensor type, the sensor temperature co-efficient (0.00385, 0.00392 etc) has little to no effect on the accuracy of the **SEM203P**. The **SEM203N** accepts a 120 ohm Ni temperature sensor.

The **SEM203** provides a level of performance superior to analog units at a comparable price.

The simple push of a button *ranges and calibrates* the **SEM203** transmitter. There is no need for jumpers or pot adjustments.

Ease of re-ranging assures that you will have the range you need in stock without requiring excessive inventory. High accuracy, stability and flexibility make the **SEM203** the ideal choice for many RTD transmitter applications.

CALIBRATION PROCEDURE

1. Connect an RTD simulator/calibrator to the input and between 8 & 30 volts DC to the output of the SEM203.
2. Set the simulator to the desired temperature at 4mA. Press and HOLD the calibration button until the LED starts to blink.
3. Set the simulator to the desired temperature at 20mA. Press the calibration button and release. The LED continues blinking and then shuts off confirming that the unit is calibrated.

It's that simple and that fast



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