

# TEMPERATURE SENSOR

## SPP1 Series Temperature Sensor / Transmitter Assembly with fixed immersion length.

- General Purpose Temperature Sensor
- Choice Of Immersion Length
- ½" BSP Process Connection
- 75mm Thermal Lagging Extension
- SEM203P 2 wire 4 to 20mA Transmitter fitted
- Temperature Range -50/200 Deg C at tip



### INTRODUCTION

The SPP1 series temperature sensor and transmitter assembly is a general purpose product designed for use in the process industry. It consists of a class B Pt100 temperature sensor housed in a 316 Stainless Steel probe with a ½" BSP process connection. It has a 6mm diameter stem with 4 choices of immersion length.

Housed in an aluminium alloy connection head, the temperature transmitter, SEM203P can be set to measure the required temperature range without the need for a PC. Style 1 Thermowells to suit this product can be seen on our website.

### SPECIFICATIONS @ 20 ° C

#### Sensor

Element: Pt100 Class B 3 wire to IEC 60751  
Probe Material: 316 Stainless Steel  
Immersion Length: 50,75,100,150mm, 6mmDiameter  
Process Connection: ½" BSP  
Lagging Extention: 75mm x 12.7mm  
Head Thread: M24 x 1.5  
Sensor Wires: 7/0.2 Cu PTFE

#### Head

Cable entry: M20 with Cable Gland  
Material: Aluminium Alloy  
Cap Seal: IP 67

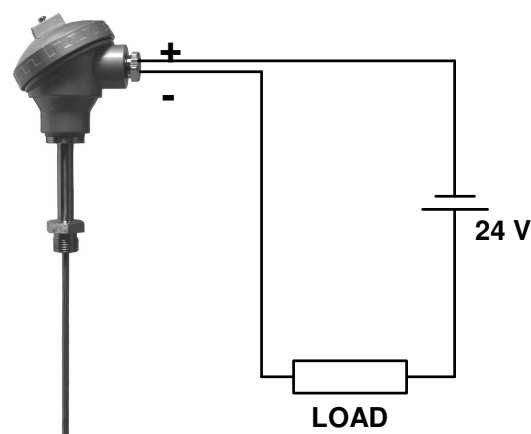
#### Transmitter

Input: Pt100  
Accuracy: 0.2 °C  
Temperature Range: Configuration: Push Button  
Sensor Referencing: Yes  
Power Supply: (10 to 30) VDC  
Output: 2 wire (4 to 20) mA  
Default temperature  
Default Range: (0 to 100) °C

#### General

Temperature Range: (-50 to 200) °C at tip  
Max Head Temperature: 75 °C  
Overall Accuracy: As SEM203P (see datasheet) plus class B sensor error

#### Connections



#### Order Codes

SPP1/11/203/50mm  
SPP1/11/203/75mm  
SPP1/11/203/100mm  
SPP1/11/203/150mm