

Thermos

TEMPERATURE SENSOR WITH SHIELD

The Symmetron Temperature sensor is designed for accurate and stable measurements in meteorology systems.

The sensor is based on a factory-calibrated Swiss-made element.

FEATURES

- Good accuracy.
- Excellent long term stability.
- Analog temperature output for compatibility with most data loggers.
- Not affected by cable length.
- Easy Stylitis data logger setup from Symmetron software library.
- Suitable for external use if combined with the radiation shield
- MODBUS RTU option



PROBE SPECIFICATIONS

TEMPERATURE

- Temperature operation span: - 40 ~ +90 °C
- Temperature accuracy:
 - $\pm 0,3^{\circ}\text{C}$ (+10 ~ +90 C)
 - $\pm 0,6^{\circ}\text{C}$ (-20°C ~ +10°C)
 - $\pm 1,2^{\circ}\text{C}$ (-40°C ~ -20°C)
- Resolution: 0.1°C
- Response time: < 12 seconds
- Analog temperature output: 0~1V.
- Digital SDI-12, v1.3 compatibility.
- Operation voltage: 8...30 Volts DC
- Current consumption: < 1 mA
- Cable length: 3 meters
- Wire colors:
 - Red: +Supply
 - Black: - Supply
 - White: Voltage output 0~1V
- Conversion to temperature (°C):
(Voltage output * 200) - 50
- Dimensions **sensor only**: Height=160 mm, Diameter=16 mm
- Dimensions **wall mount sensor**: Height=56mm, Width=40 mm, Depth=23 mm
- CERTIFICATION: CE

SHIELD SPECIFICATIONS

- External use.
- Material: UV stabilized white thermo-plastic plates
- Temperature error @ 1000 W/m² radiation intensity:
 - 0.4°C RMS @ 3 m/s wind speed
 - 0.7°C RMS @ 2 m/s wind speed
 - 1.5°C RMS @ 1 m/s wind speed
- Dimensions: Height=250 mm, Diameter=130 mm

Sensor only



Wall mount sensor



ORDER CODES:

Analog output

Sensor with shield: 002.000.0082
Sensor only: 002.000.0083
Shield only: 003.001.1202
Wall mount sensor: 002.000.0084

MODBUS

Sensor with shield: 002.000.0090
Sensor only: 002.000.0087