

OxyGuard Temperature Probes

Temperature Measurement Probes with or without built-in Transmitter



Temperature Probe
with built-in transmitter
and thread fitting



Temperature Probe
with built-in transmitter



Temperature Probe
without transmitter

Probes shown 75%
of natural size

OxyGuard temperature measurement probes are available with precision thermistor temperature sensor or with 4-wire Pt100 sensor. The thermistor version is also available with built-in 4-20 mA 2-wire transmitter. The probes are designed for use between -5°C and $+45^{\circ}\text{C}$.

With housing of POM and sensor tip of stainless steel these probes are ideal for use as simple temperature sensors in water, air or gas in fish farms and similar uses.

The thermistor version without built in transmitter is designed for use with OxyGuard monitoring units.

The version with built-in transmitter is a true 2-wire 4 to 20 mA device. When connected to a source of voltage between 14 and 32 volts it regulates the current in the circuit between 4 mA and 20 mA according to the temperature.

Technical Information

Technical Advantages

OxyGuard temperature probes are robust, accurate and easy to use. They are filled with a special compound that protects against moisture. As standard the probes are fitted with 7 m cable, but they can be supplied with other lengths on request. The sensor in both types of probe consists of a stainless steel cylinder containing the thermistor or Pt100 element. This sensor tip is fitted to a black plastic housing. Standard types of housing are shown overleaf, but others can be supplied on request, e.g. to fit other pipe threads or fittings.

Specifications

Probe with Sensor alone

Construction: Sensor tip 9mm dia. x 32 mm. Body 21.5 mm dia.
Total length with cable gland 117 mm. Also available with ½" pipe thread.
Other body shapes available on request.

Cable length: Standard cable 7 m 2-wire 0.75 mm² PUR. Other lengths available on request.

Operating temperature: Standard range: -5°C to +45°C.

Accuracy: +/- 0.2 deg. C. For Pt 100 please contact OxyGuard.

Probe with Sensor and 4-20 mA Transmitter

Construction: Sensor tip 9mm dia. x 32 mm. Body 21.5 mm dia.
Total length with cable gland 138 mm.
Also available with ½" pipe thread.
Other body shapes available on request.

Cable length: Standard cable 7 m 2-wire 0.75 mm² PUR. Other lengths available on request.

Operating temperature: Standard range: -5°C to +45°C.

Calibration: Factory calibrated; 4-20 mA = -5°C to +45°C. Other values on request.

Accuracy: Thermistor: +/- 0.2°C.

Warm-up time: 1 millisecond.

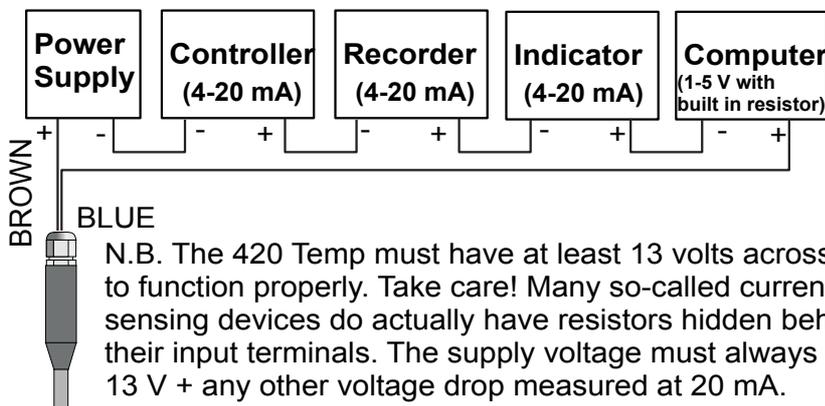
Supply: Min 14 V DC, max 32 V DC.

Max loop resistance: 50 ohm total with 14 V supply, 950 ohm total with 32 V supply.

Ordering Information

D061: Standard temperature probe. D062: Temperature probe with built-in transmitter
D062TH: as D062 but with thread mount. D063: Temperature probe with PT100 sensor.

Connection Example - 420 Temp



Connections - Pt 100

