

270-WQ101 Water and Soil Temperature Sensor

The **270-WQ101 Water & Soil Temperature Sensor** is a rugged and reliable device for highly accurate submersible water or soil temperature measurement. The sensor's probe is molded to 25' of marine grade cable, with lengths up to 500' available upon request. The 270-WQ101 has a two-wire configuration for minimum current draw. The unit's electronics are completely encapsulated in marine grade epoxy within a stainless steel housing.

Features

- Fully encapsulated electronics
- 4-20 mA output
- Marine grade cable with strain relief
- 304 Stainless Steel housing (not for saltwater)
- Optional 3/4" Sch 80 PVC housing with threaded ends and cap



Output	4-20 mA, two-wire loop configuration
Range	-50 °C to +50 °C (-58 °F to 122 °F)
Accuracy	± 0.1 °C (± 0.2 °F)
Maximum Pressure	Open water: 1380 kPa (200 PSI)
Operating Voltage	10 to 36 Vdc
Current Draw	Same as sensor output
Warm-up Time	5 seconds minimum
Response Time	5 minutes (approx.)
Operating Temperature	-50 °C to +100 °C (-58 °F to 212 °F)
Construction	Marine grade epoxy encapsulated electronics in 304 Stainless Steel tube
Marine Grade Cable	Yellow polyurethane jacket, UV resistant, 0.216" ±0.010" diameter 25' std (7.6 m), 500' max (152 m)
Probe Dimensions	Stainless Steel housing: 3/4" Diameter x 4.5" Long (19 mm x 115 mm) Sch 80 PVC housing: 1-3/4" Diameter x 8.0" Long (43 mm x 200 mm)
Weight	Stainless Steel housing: 8 ounces (227 g) Sch 80 PVC housing: 9.4 ounces (272 g)



The CE Marking identifies this product as complying with all relevant directives in the European Union (EU).

Ordering Information

270-WQ101	Temperature Sensor, 4-20 mA, with 25 ft (7.62 meter) cable
270-WQ101-O	Temperature Sensor, 4-20 mA, with 25 ft (7.62 meter) cable, PVC housing
270-WQ101/50	Temperature Sensor, 4-20 mA, with 50 ft (15.24 meter) cable
270-WQ101/75	Temperature Sensor, 4-20 mA, with 75 ft (22.86 meter) cable
270-WQ101/100	Temperature Sensor, 4-20 mA, with 100 ft (30.48 meter) cable
270-WQ101/125	Temperature Sensor, 4-20 mA, with 125 ft (38.10 meter) cable
270-WQ101/150	Temperature Sensor, 4-20 mA, with 150 ft (45.72 meter) cable
270-WQ101/200	Temperature Sensor, 4-20 mA, with 200 ft (60.96 meter) cable
270-WQ101/500	Temperature Sensor, 4-20 mA, with 500 ft (152.40 meter) cable