

ClimaCheck Temperature Sensor

ClimaCheck Pt1000 sensor

ClimaCheck has developed a range of sensors specifically designed for high quality measurements on HVAC systems. The standard sensor is suitable for surface mounting on tubes at the same time as it has to sustain the rough handling it will be exposed to in a machine room. Standard sensors are available with 5 or 10 m high-quality silicon cable and with or without tele plug.



Type A - Standard sensor tip 40 mm with groove



Type B - Round tip sensor 25 mm diameter 5 mm

Ø 3 mm 150 mm (6 inch) sensor for "Test Plug" mounting and air



The "Test Plugs" probe, also called "binder probes", offers an excellent solution to get high accuracy and quick response as the sensor is inserted in the flow. They eliminate the temperature pockets that delay response and create a risk for freezing at low temperature and the sensors can easily be removed for calibration. Type C - Probe is 150 mm long with 3 mm diameter with an angle to give a good hold when it is inserted or removed.

ClimaCheck offers test plugs in brass or stainless steel with 15 mm pipe thread short or extended 45 mm to reach above insulation.

This sensor is also suitable to insert in air flow as it can easily be pushed through seals and/or fixed in position well away from walls.

Standard Sensor range

Part no	Tip type	Sensor element	Cable length	Contact
300 100	A "grove"	Pt1000 Class A	5 m (16.4 feet)	Tele plug
300 200	A "grove"	Pt1000 Class A	5 m (16.4 feet)	Free leads
300 205	B "round"	Pt1000 Class A	5 m (16.4 feet)	Tele plug
300 220	A "grove"	Pt1000 Class A	10 m (32.8 feet)	Free leads
300 225	A "grove"	Pt1000 Class A	10 m (32.8 feet)	Tele plug
300 230	A "grove"	Pt1000 Class A	20 m (65,6 feet)	Free leads
300 501	C Ø3 mm, 150 mm	Pt1000 Class A	10 m (32.8 feet)	Free leads
300 502	C Ø3 mm, 150 mm	Pt1000 Class A	10 m (32.8 feet)	Tele plug
300 520	A "grove"	Pt100 Class A	10 m (32.8 feet)	Free leads

Accessories temperature measurements	
Part no	Product
300 600	RTD04 DIN mounted, a 4-channel temperature input module for PA Pro bus protocol Sensor type can be selected to Pt1000/Pt100 and many other industry standards (see separate spec for details)
300 601	RTD04 in housing with 4 Tele plug, a 4-channel temperature input module for PA Pro Sensor type can be selected to Pt1000/Pt100 and many other industry standards
300 345	Test plug 15 mm, short, brass
300 346	Test plug 15 mm, extended 45 mm, brass
300 355	Test plug 15 mm, short, stainless
300 356	Test plug 15 mm, extended 45 mm, stainless
300 113	Extension cable, 3.5 m, Tele plug male/female
300 114	Extension cable, 7 m, Tele plug male/female
300 115	Extension cable, 10 m, Tele plug male/female
300 290	Pt1000 to 4-20 mA transducer with Tele plug in/out
300 520	Pt100 Class A, 10 m

Specification sensors:

Sensor: Pt1000 DIN class A, \pm Limits deviations in °C (K), $0.15 + 0.002 \cdot |t|$

Approved temperature range: -50 to 150°C

Sensor is submersible and sealed to eliminate risk for condensation.

Resistance of the 5 and 10 m cable: 1.32 Ohms/+0.34°C (default programmed into ClimaCheck data acquisition systems)

Resistance of the 20 m cable: 2.64 Ohms/+0.68°C

Leads

5 m 2-lead silicon cable (KA2X0.14-STN001)

10/20 m 4-lead same material

Potting PU in housing (Silicone rubber at tip for those with tip seal)

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