



TCT

Compact, rugged, precise

SICK
Sensor Intelligence.



Technical data overview

Temperature measuring range	-50 °C ... +250 °C (depends on variant)
Process connection	Without process connection Thread G ¼ B Thread G ½ B Thread ¼" NPT Thread ½" NPT Compression fitting G ¼ B, CrNi stainless steel ferrule Compression fitting G ½ B, stainless steel ferrule Compression fitting ¼" NPT, CrNi stainless steel ferrule Compression fitting ½" NPT, CrNi stainless steel ferrule Compression fitting G ¼ B, PTFE ferrule Compression fitting G ½ B, PTFE ferrule Compression fitting ¼" NPT, PTFE ferrule Compression fitting ½" NPT, PTFE ferrule Thermowell G ¼ B Thermowell G ½ B Thermowell ¼" NPT Thermowell ½" NPT Thermowell weld-in diameter 18 mm (depends on variant)
Insertion length/diameter of probe	100 mm / 6 mm 150 mm / 6 mm 250 mm / 6 mm 25 mm / 3 mm 50 mm / 3 mm 350 mm / 6 mm
Seal	Without seal
Output signal	Pt100, 4-wire / 4 mA ... 20 mA, 2-wire (depends on variant)
Connection type	M12 round connector x 1, 4-pin L-connector (DIN EN 175301-803 A), 4 pin (depends on variant)
Enclosure rating	IP67 / IP65 (depends on variant)
Communication interface	-

Product description

The TCT is a universal Pt100 resistance thermometer in a compact stainless steel housing for temperature measurement in liquids and gases. Available with a variety of process connections and insertion lengths, it can be adapted to specific applications. The TCT is available with or without compression fittings and with various connection threads, for example. Designs with protective pipe can also be supplied. The Pt100 element is located inside the tip of the probe. Wetted parts are made from high-grade stainless steel 1.4571. The TCT is available with Pt100 output or an integrated measuring transducer with 4 mA ... 20 mA output signal.

At a glance

- Pt100 element, accuracy class A according to IEC 60751
- Measuring ranges -50 °C ... +150 °C and -50 °C ... +250 °C
- Wetted parts made from corrosion resistant stainless steel 1.4571
- Various mechanical adaptations and insertion lengths, also available with thermowell
- Pt100 (4-wire) or 4 mA ... 20 mA (2-wire)
- Circular connector M12 x 1 (IP 67)

Your benefits

- Reliable operation through rugged design and high-quality materials
- Very good long-term stability, accuracy and linearity
- Quick and safe installation
- Convenient system integration through compact dimensions and industry-standard output signals
- Optimal solutions for individual requirements due to versatile configurability

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com