

Temperature Sensor with ceramic isolation – TF-CX Series

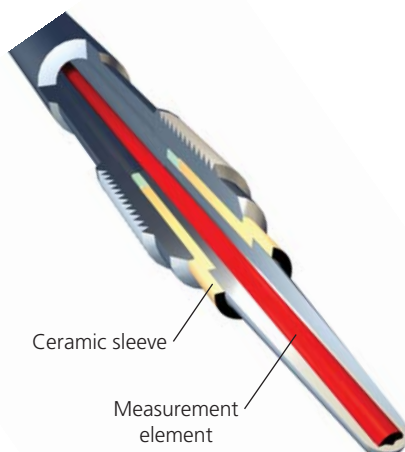


The Gneuss CX Series Temperature Sensors are specially designed for precise temperature measurement of the melt stream. Their resulting high accuracy is due to the incorporation of the advanced G-Isolate ceramic insulation surrounding the entire measuring element. Commonly influenced primarily by the barrel temperature, CX series with G-Isolate guarantees an accurate reading of temperature probe, independent of the flange or tool location. The design of the CX exceeds the recommended guide lines of the Plastics and Rubber trade association according to EUROMAP 31.

- Measuring tip isolated with high-performance ceramic
- Highly precise temperature measurement
- Plug connections with gold-plated contacts
- Extremely robust conical measuring element (ROC Rheologically Optimized Conical Tip)
- Applications up to 500 °C (932 °F) media temperature
- 100 % market compatible
- Exceeds EUROMAP 31

Configuration options

- Thermocouple Type J,L,K or RTD
- 1/2" 20 UNF or M18 x 15 process connection
- Special materials for measuring tip (abrasive or corrosive medias)
- Amplifier for Ex-areas (4-20 mA) with BUZ head
- Available as transmitter with 0-10V or 4-20 mA in the TF-LX version
- Measuring tip length available from 0 mm (0 inch) (flush) to 25 mm (1 inch)
- G-Isolate ceramic sleeve (illustration)



Product variations (examples)



EX-version
4-20 m/A Transmitter BUZ head



Cable protection option
Flexible component with G-Armor



Special shaft lengths
1/2 20 UNF and M18



Connector selection
Thermocouple or RTD

Ceramic insulated measurement tip

The melt temperature sensors with thermally insulated measurement tip provide the user with a precise and meaningful measurement. Distortion of the measurement value by external or internal heat influences is minimised. The sensor with ceramic insulated measurement tip is therefore particularly recommended for use with thermally-sensitive materials due to the authentic measurements which it provides.