

Temperature Sensor with ceramic isolation – TF-CX Series



The temperature sensors of the TF Series are ideal for exact temperature measurements in highly sensitive medias. The ceramic isolation guarantees a direct reading of the melt temperature independent of the flange or tool location. The ceramic encases the measuring element and isolates it from the surrounding area. The design of the TF conforms to 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 (rheologically optimized)
- Applications up to 500°C (932 °F) media temperature
- 100 % market compatible
- Conforms to EUROMAP 31

Configuration options

- Thermocouple Type J,L,K or resistance temperature detector PT 1000
- ½" UNF 2A or M18 process connection
- Special materials for measuring tip (abrasive or corrosive medias)
- Amplifier for Ex-areas (4-20mA) with BUZ head
- Available as transmitter with 0-10V or 4-20mA in the TFI version
- Measuring tip length available from 0mm (0inch) (flush) to 25mm (1inch)

Product variations (examples)



Ex-version with 4-20mA transmitter and BUZ head



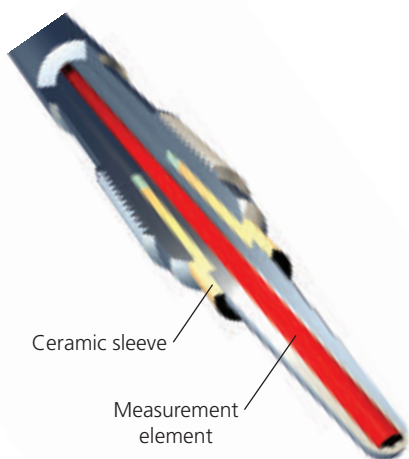
Version with flexible component between shaft and terminal head



Special shaft lengths available with ½" UNF 2A and M18



Version TFCLC available with cable exit and connector



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.