

TF-MX Series Temperature Sensor



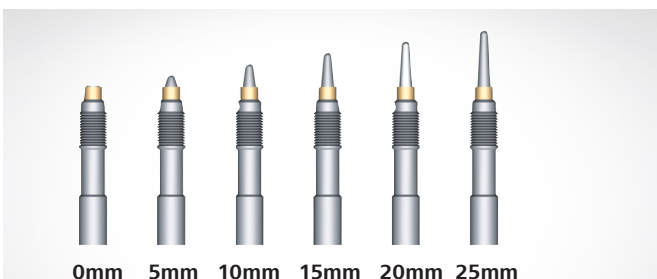
The Gneuss MX Series was developed to measure most melt temperature ranges for all types of plastics with high response. The TF-series temperature sensors are economical, of robust construction, and reliable. The rheological characteristics of most plastic materials were considered during the design process of the Gneuss ROC (Rheologically Optimized Conical) measuring tip, therefore highly viscous media are measured with maximum adhesion. Major advantages regarding the lifespan and reliability of this sensor type in comparison to sword sensors are ensured due to this installation configuration.

Configuration options

- Thermocouple Type J, L, K or RTD
- 1/2" 20 UNF or M 18 x 1,5 process connection
- Special materials for measuring tip (abrasive or corrosive materials)
- Available as transmitter with 0...10 V or 4...20 mA
- Amplifier for ex-areas (4...20 mA) with BUZ head
- Measuring tip length available from 0 mm (0 inch) (flush) to 25 mm (1 inch)

- Robust metal construction
- Special materials for measuring tip
- Plug connections with goldplated contacts
- Rheologically optimized conical tip (ROC)
- Applications up to 500°C (932°F) media temperature
- 100% market compatible
- Maximum melt pressure 2.000 bar (29,000 psi)

Measuring tip length



The measuring tip length is selected according to the polymer melt viscosity and melt channel diameter at the point where the instrument is located.

The length can be selected in 5mm (0.2 inch) steps from 0 mm (0 inch) (flush) to 25 mm (1 inch). The standard design is suitable for melt temperatures of up to 400 °C (1,000 °F), the special Hastelloy design (see above) up to 500 °C (932 °F).

All the tip lengths are available with thermocouples (Fe-CuNi type J or L, NiCr-Ni type K) or resistance sensors PT 100 (2-, 3- or 4-wire).

Product variations (examples)



Special design

AlloyC4 measuring tip



Cable protection option

Flexible component with G-Armor



Connector selection

Thermocouple or RTD

