

Melt Temperature Sensor, All-Metal Design TF-MX Series



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 medias 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.

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

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 (4-20mA) with BUZ head
- Available as transmitter with 0-10V or 4-20mA in the TF-LX version
- Measuring tip length available from 0mm (0inch) (flush) to 25mm (1inch)

Product variations (examples)



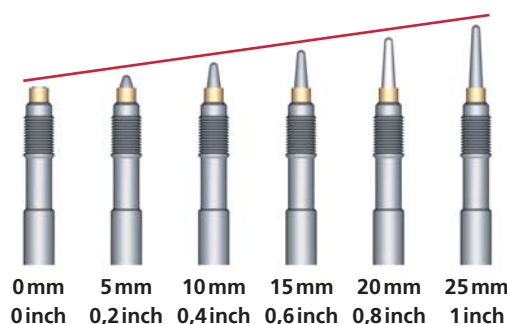
Alloy-C4 measuring tip



With gold-plated pin connectors



With cable exit and thermocouple plug in the TF-LX design



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 5 mm (0,2 inch) steps from 0mm (0inch) (flush) to 25mm (1inch). 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).