



Diving temperature sensor with M12 connector

- High-precision temperature sensor for gaseous and liquid media.
- Measuring range from -30 to +90°C for versatile industrial applications.
- Pt100 sensor class B for accurate and stable measurements.
- Various installation lengths allow for flexible installation options.
- Protection class IP65 ensures reliable operation under demanding conditions.



Description

The TF8/E immersion sensor with M12x1 connector is a high-precision solution for temperature measurement in gaseous and liquid media. With a measuring range of -30 to +90°C, this temperature sensor is ideal for a variety of applications in the industry where reliable temperature monitoring is essential. Equipped with a Pt100 sensor of class B, the TF8/E ensures accurate and stable measurements that meet the demands of modern processes. The various installation lengths allow for flexible installation, while the protection class IP65 ensures that the sensor operates reliably even under challenging conditions. The TF8/E can be easily mounted using an immersion sleeve, compression fitting, or mounting flange and can be directly mounted on channels or containers if needed. This enables quick and uncomplicated replacement in case of service, significantly simplifying maintenance. Rely on the TF8/E to ensure precise temperature measurements in your applications.



Technical Specifications

Approvals	CE, EAC, RoHS
Circuit type	4-wire connection
Dimensions	Protection sleeve: Ø 6 mm
Electrical connection	M12 plug connector
Installation	immersion sleeve, mounting flange, compression fitting (not in scope of delivery)
Installation length	50-400 mm
Leakage resistance	> 100 MOhm, at +20°C (500 V DC)
Material	Protection sleeve: stainless steel VA 1.4571
Measurement current	approx. 1 mA
Measurement range temp.	-30...+90°C
Nominal length	Nominal length + 15 mm
Protection type	IP65
Sensor	Pt100, Pt1000 (other on request)
Storage temperature	-20...+70°C

Variants

Article Number	
Name	Beschreibung
TF8/E-10/050	
Immersion temperature sensor with M12 connector Pt100 class B 50 mm IP65 -30 to +90°C	Sensor: Pt100 (DIN EN 60751 Cl. B) Temperature: -30...+90°C Installation length: 50 mm
TF8/E-10/100	
Immersion temperature sensor with M12 connector Pt100 Class B IP65 100 mm -30 to +90°C	Sensor: Pt100 (DIN EN 60751 Cl. B) Temperature: -30...+90°C Installation length: 100 mm
TF8/E-10/150	
Immersion temperature sensor with M12 connector Pt100 class B IP65 150 mm -30 to +90°C	Sensor: Pt100 (DIN EN 60751 Cl. B) Temperature: -30...+90°C Installation length: 150 mm
TF8/E-10/200	
Immersion temperature sensor with M12 connector Pt100 Class B IP65 200 mm -30 to +90°C	Sensor: Pt100 (DIN EN 60751 Cl. B) Temperature: -30...+90°C Installation length: 200 mm
TF8/E-10/250	



Immersion temperature sensor with M12 connector Pt100 Class B IP65 250 mm -30 to +90°C	Sensor: Pt100 (DIN EN 60751 Cl. B) Temperature: -30...+90°C Installation length: 250 mm
TF8/E-10/300	
Immersion temperature sensor with M12 connector Pt100 Class B IP65 300 mm -30 to +90°C	Sensor: Pt100 (DIN EN 60751 Cl. B) Temperature: -30...+90°C Installation length: 300 mm
TF8/E-10/350	
Immersion temperature sensor with M12 connector Pt100 Class B IP65 350 mm -30 to +90°C	Sensor: Pt100 (DIN EN 60751 Cl. B) Temperature: -30...+90°C Installation length: 350 mm
TF8/E-10/400	
Immersion temperature sensor with M12 connector Pt100 class B IP65 400 mm -30 to +90°C	Sensor: Pt100 (DIN EN 60751 Cl. B) Temperature: -30...+90°C Installation length: 400 mm
TF8/E-20/050	
Immersion temperature sensor with M12 connector Pt1000 Class B 50 mm IP65	Sensor: Pt1000 (DIN EN 60751 Cl. B) Temperature: -30...+90°C Installation length: 50 mm
TF8/E-20/100	
Immersion temperature sensor with M12 connector Pt1000 Class B IP65 100 mm -30 to +90°C	Sensor: Pt1000 (DIN EN 60751 Cl. B) Temperature: -30...+90°C Installation length: 100 mm
TF8/E-20/150	
Immersion temperature sensor with M12 connector Pt1000 class B IP65 150 mm -30 to +90°C	Sensor: Pt1000 (DIN EN 60751 Cl. B) Temperature: -30...+90°C Installation length: 150 mm
TF8/E-20/200	
Immersion temperature sensor with M12 connector Pt1000 Class B IP65 200 mm -30 to +90°C	Sensor: Pt1000 (DIN EN 60751 Cl. B) Temperature: -30...+90°C Installation length: 200 mm
TF8/E-20/250	
Immersion temperature sensor with M12 connector Pt1000 class B IP65 250 mm -30 to +90°C	Sensor: Pt1000 (DIN EN 60751 Cl. B) Temperature: -30...+90°C Installation length: 250 mm
TF8/E-20/300	
Immersion temperature sensor with M12 connector Pt1000 Class B 300 mm IP65 -30 to +90°C	Sensor: Pt1000 (DIN EN 60751 Cl. B) Temperature: -30...+90°C Installation length: 300 mm



Article Number	
Name	Beschreibung
TF8/E-20/350	
Immersion temperature sensor with M12 connector Pt1000 class B IP65 350 mm -30 to +90°C	Sensor: Pt1000 (DIN EN 60751 Cl. B) Temperature: -30...+90°C Installation length: 350 mm
TF8/E-20/400	
Immersion temperature sensor with M12 connector Pt1000 Class B IP65 400 mm -30 to +90°C	Sensor: Pt1000 (DIN EN 60751 Cl. B) Temperature: -30...+90°C Installation length: 400 mm



