



Pt1000 probe sensors with new technology.



Improved response times of
 $T_{05} = 1 \text{ s}$ and $T_{09} = 3 \text{ s}$.

- Variable installation depth because of different probe lengths.
- Temperature measurement using an integrated Pt1000 sensor element, class A.
- High protection rating IP 67 for different applications.
- Diameter 6, 8 or 10 mm.



Long lasting precision

The TT type probe sensors ensure very precise temperature measurement using a Pt1000 element of precision class A. In addition, long life is guaranteed by the high protection rating IP 67.

Even faster response times

Using the latest technologies, the response time has been reduced. This sensor is suited for all highly precise and rapid processes.

A wide range of applications

The sensors are available with a diameter of 6, 8 or 10 mm and in different lengths. So they can be integrated into almost any application using process adapters and standardised M12 connectors.



Application example with the TR control monitor

fluid sensors
and diagnostic
systems

position
sensors
and object
recognition

bus,
identification
and control systems

**Pt1000 element, class A
M12 connector,
gold-plated contacts**

Diameter Ø [mm]	Nominal length L [mm]	Dynamic response time T05 /T09 [s]	Order no.
For industrial applications			
6	160	1.2 / 3.5	TT1250
6	260	1.2 / 3.5	TT2250
6	360	1.2 / 3.5	TT3250
8	160	1 / 3	TT1150
8	260	1 / 3	TT2150
8	360	1 / 3	TT3150
10	160	1 / 3	TT1050
10	260	1 / 3	TT2050
10	360	1 / 3	TT3050
10	560	1 / 3	TT5050
For hygienic areas and viscous media			
10	110	1 / 3	TT0061
10	160	1 / 3	TT1061






Common technical data

Precision	[%]	± (Pt1000 + 0.2 K)
Measuring element		Pt1000 to DIN EN 60751, Class A
Measuring range	[°C]	-40...150
Nominal pressure		The permissible operating pressure is determined by the fitting used
Protection rating		IP 67
Material		stainless steel (316S12)
Total length		L + 22 mm





Control monitor

Description	Order no.
Control monitor, 1 x analogue output, 1 x PNP/NPN	TR2432
Control monitor, 2 x PNP	TR7430
Control monitor, 4 x PNP	TR8430
Mounting set for the connection of temperature sensors type TT to TR	E30017



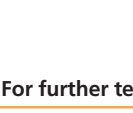

Accessories (selection)

Type	Description	Order no.
	Clamp adapter, Ø 10 mm with ASEPTOFLEX adapter thread	E34110
	Clamp fitting Ø 6 / 8 / 10 mm – G 1/2	E30018
	Progressive ring fitting for temperature sensors, Ø 10 mm - G 1/2	E30016
	Progressive ring fitting for temperature sensors, Ø 8 mm - G 1/2	E30046
	Progressive ring fitting for temperature sensors, Ø 6 mm - G 1/2	E30047

Thermowells (selection)

	Hygienic thermowell, Ø 10 mm with ASEPTOFLEX adapter thread	E34010
	Thermowell for temperature sensors, Ø 8 mm – G 1/2	E36010
	Thermowell for temperature sensors, Ø 6 mm – G 1/2	E37010
	Welding thermowell for temperature sensors, Ø 10 mm	E35210

Connectors and splitter boxes (selection)

Type	Description	Order no.
	M12 socket, 2 m orange, PVC cable	E11636
	M12 socket, 5 m orange, PVC cable	E10700
	M12 socket, 2 m black, PUR cable	EVC004
	M12 socket, 5 m black, PUR cable	EVC005

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