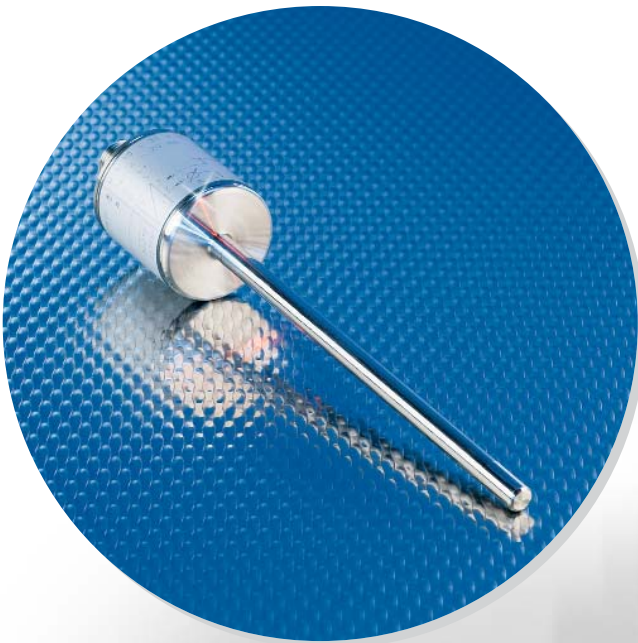


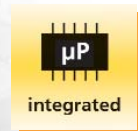
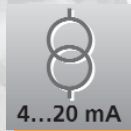


Temperature transmitter with excellent response time.



Compact 6 mm temperature sensor for tanks and pipes.

- Measuring range of $-10...150\text{ }^{\circ}\text{C}$.
- Precision of 0.15 K at $60\text{ }^{\circ}\text{C}$.
- Excellent response time:
 $T_{05} = 1.2\text{ s}$ or $T_{09} = 3.5\text{ s}$.
- Flexible installation depths.
- Mounting via common clamp fittings.



One unit – a wide range of options

The TA type temperature sensor is a universal transmitter with a 4...20 mA current output.

Due to a Pt1000 sensor element of precision class A and factory calibration, the achieved precision is 0.15 K at $60\text{ }^{\circ}\text{C}$.

Using ifm's tried-and-tested film technology the unit also features excellent response times. So this sensor is suited for all highly precise and rapid processes.

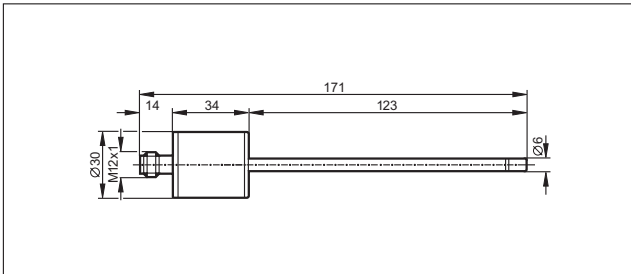


fluid sensors
and diagnostic
systems

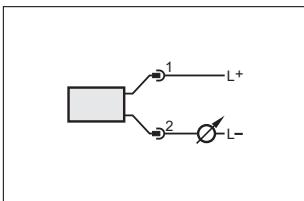
position
sensors
and object
recognition

bus,
identification
and control systems

Dimensions



Wiring diagram



Application

In the food industry and in many other industrial applications, precise temperature measurement is indispensable. In particular biological processes such as fermentation and pasteurisation take place in a temperature range of 60 °C to 70 °C. In this temperature range the TA3231 temperature transmitter features its highest precision because of its factory calibration.

Providing a standardised 4...20 mA analogue signal enables processing in any common controller.

Advantages and customer benefits

• Flexible installation depth

The 6 mm sensor tip enables installation via common clamp or progressive ring fittings, which enables flexible installation depth.




• High protection rating and mechanical stability

The completely sealed and welded housing ensures not only protection rating IP 67 / IP 69 K but also high mechanical stability.






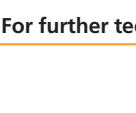
Technical data

Temperature transmitter TA3231		
Operating voltage	[V]	10...30 DC
Rev. polarity / overload protection		• / •
Measuring element		Pt1000, Class A
Response time T05 / T09	[s]	1.2 / 3.5
Permissible overload pressure		Depending on the accessories
Medium temperature	[°C]	-10...150
Precision		
Analogue signal (60 °C)	[°C]	± 0.15
Analogue signal (-10...150 °C)	[°C]	± 0.3
Resolution	[°C]	≤ 0.05
Protection rating		IP 67 / IP 69 K

Accessories

Type	Description	Order no.
	Welding clamp adapter, ball (Permissible overload pressure 160 bar)	E30108
	Welding clamp adapter, cylinder (Permissible overload pressure 160 bar)	E30109
	Progressive ring fitting, 6 mm, G 1/2 (Permissible overload pressure 50 bar)	E30047

Connectors and splitter boxes

Type	Description	Order no.
	M12 socket, 2 m orange, PVC cable	E11647
	M12 socket, 5 m orange, PVC cable	E10662
	M12 socket, 2 m orange, PUR cable	E11636
	M12 socket, 5 m orange, PUR cable	E10700
	Socket, M12, 2 m black, PUR cable	EVC004
	Socket, M12, 5 m black, PUR cable	EVC005