**ifm electronic**

# 200° below 2 s: Fast, hygienic temperature transmitter

**TOP PRODUCT**

## Compact design with excellent response time and extended measuring range

● **Measuring range of -50...200 °C, scalable via IO-Link 1.1**

● **Very fast response time:**
  **T05 / T09 = < 0.5 s / < 2 s**

● **LED for visualisation of the operating status**

● **Versions with different hygienic process connections**

● **Different installation lengths from 25...150 mm**

A3 | FDA | EC 1935/ 2004

### Analogue and IO-Link

The temperature transmitter has an analogue output with 4...20 mA. The parameters are set via the integrated IO-Link interface.
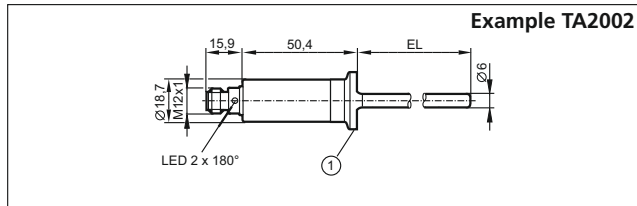
### Fast and precise

The Pt1000 measuring element of class A achieves a high precision with the factory-internal calibration. The innovation besides the wide measuring range is the excellent response time. Therefore the sensor is suitable for all highly-precise and fast processes in hygienic environments.

### Transparent and flexible

An LED clearly signals the readiness for operation. Compact design, integrated process connections and different probe lengths enable easy and flexible installation.
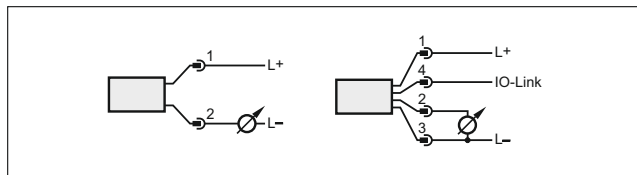
# Process sensors

*Temperature sensors*

## Dimensions



**Example TA2002**

1) 3/4" Clamp

## Wiring diagram



## Accessories

| Type | Description | Order no. |
|------|-------------|-----------|
| | IO-Link interface for parameter setting and analysis of units with DTM specification, current consumption from USB port: max. 500 mA | E30396 |
| | Memory plug, parameter memory for IO-Link sensors | E30398 |
| | LINERECORDER SENSOR, software for parameter setting and setting up IO-Link sensors | QA0001 |

## Connection technology

| Type | Description | Order no. |
|------|-------------|-----------|
| | Socket, M12, 2 m black, PUR cable | EVC001 |
| | Socket, M12, 5 m black, PUR cable | EVC002 |
| | Socket, M12, 2 m black, PUR cable | EVC004 |
| | Socket, M12, 5 m black, PUR cable | EVC005 |

| Installation length [mm] | Order no. |
|--------------------------|-----------|
| **Process connection Clamp 3/4" Temperature range (scaled 4...20 mA) -50...200 °C** | |
| 25 | TA2002 |
| 60 | TA2012 |
| **Process connection Clamp 1.5" Temperature range (scaled 4...20 mA) -50...200 °C** | |
| 30 | TA2802 |
| 50 | TA2812 |
| 100 | TA2832 |
| 150 | TA2842 |
| **G 1/2 process connection with sealing cone Temperature range (scaled 4...20 mA) -50...200 °C** | |
| 30 | TA2502 |
| 50 | TA2512 |
| 100 | TA2532 |
| 150 | TA2542 |
| **Process connection ø 6 mm Temperature range (scaled 4...20 mA) -50...200 °C** | |
| 50 | TA2212 |
| 100 | TA2232 |
| 150 | TA2242 |

### Further technical data

| | | |
|---|---|---|
| Operating voltage | [V DC] | 18...32 |
| Reverse polarity / overload protection | | • / • |
| Measuring element | | Pt1000, class A |
| Response dynamics T05 / T09 | | < 0.5 s / < 2 s |
| Protection | | IP 67, IP 68, IP 69K / lll |
| Measuring range | [°C] | -50...200 |
| Accuracy | [K] | ± 0.3 + (± 0.1 % MS) |
| Ambient temperature | [°C] | -25...80 |
| IO-Link revision | | 1.1 |
| Materials in contact with the medium | | High-grade stainless steel (316L/1.4404) |

**ifm – close to you!**