



# Fast, precise, non-invasive

Passive surface temperature probe

- Clamp-on solution reduces installation costs and effort
- Also suitable for use in hygienic areas
- Fast response time and high measurement accuracy for a clear process overview



IP69K

**ifm** – close to you!

| External pipe diameter<br>[mm] | Nominal width | Order no.     |
|--------------------------------|---------------|---------------|
| 17...21                        | DN15          | <b>TSM201</b> |
| 21...24                        | DN20          | <b>TSM301</b> |
| 25...30                        | DN25          | <b>TSM401</b> |
| 32...36                        | DN32          | <b>TSM501</b> |
| 38...45                        | DN40          | <b>TSM601</b> |
| 48...54                        | DN50          | <b>TSM701</b> |

| Common technical data       |      |           |
|-----------------------------|------|-----------|
| Temperature measuring range | [°C] | -25...160 |
| Measurement accuracy        | [%]  | 2         |
| Measuring element           |      | Pt1000    |
| Response time T09           | [s]  | 25        |
| Protection rating           |      | IP69K     |

### Simple process monitoring even on small pipes

The temperature probe for surface mounting enables quick, flexible and easy measuring point configuration. The passive temperature probe is particularly suitable for use on small pipe diameters where invasive temperature monitoring would significantly affect the flow of the medium. As the values are recorded non-invasively, there is no risk of contamination of the medium. Instead, the installation is easy and does not require time-consuming and cost-intensive drilling and welding, so that the measuring point can also be installed in the running process.

### Tested hygienic suitability

Thanks to a temperature range of up to 160 °C and its high IP69 K protection rating, the probe is also suitable for use in food production. In combination with invasive temperature monitoring, for example, complete heating of the pipes required in the CIP process can be ensured.

## BEST FRIENDS



### Temperature plug

Converts resistance values into analogue or IO-Link signals



### moneo|blue

Manage IO-Link devices conveniently via smartphone app



### IO-Link masters

Field-compatible masters for use in hygienic areas



For further technical details, please visit:  
[ifm.com/fs/TSM301](https://ifm.com/fs/TSM301)