



# Digitise temperatures

Integrate measuring probes directly into IO-Link

- 4 ports for direct connection of Pt100, Pt1000 elements and thermocouples
- Recognise tiny temperature trends thanks to the fine resolution of 0.01 °C
- High precision (0.3 %) across the entire measuring range
- Robust housing with high protection rating



IP67

IP69K

**ifm** – close to you!

### Digitisation of measuring probe for IO-Link

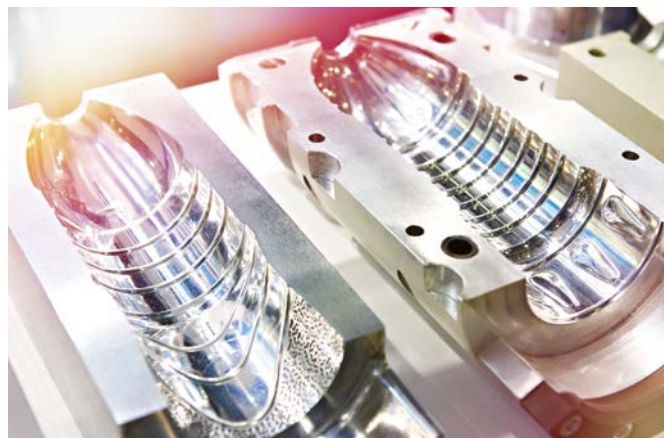
IO-Link has become established as an intelligent interface for integrating smart sensors and devices in various industries. Nevertheless, conventional temperature probes (Pt100 / Pt1000 elements or thermocouples) are still widely used in many machines and systems, which have to be connected to the central controller.

With the new IO-Link measuring modules, up to four temperature probes can be connected to an IO-Link master port, optionally in 2-, 3- or 4-wire connection technology. The pin configuration of the M12 connector can be customised using the IO-Link parameter setting.

### Adjustment of the measured value

Especially when measuring temperature with thermocouple elements, the metals used in the cables and contacts have a considerable influence on the measured value. The measured value can therefore be adjusted to the measuring line used using the "Cold junction offset" and "Temperature zero point calibration" parameters.

To cover a large number range with high resolution, the measured value is displayed as a "floating number" in the process data.



In thermoplastic moulding processes, temperature probes detect even the finest temperature trends thanks to an impressive resolution of 0.01 °C.

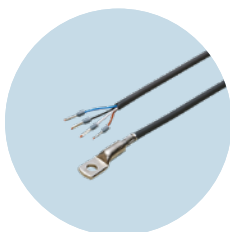
Protection rating	Order no.
IP65   IP67   IP69K (Operation with stainless steel protective caps: IP69K)	<b>AL2284</b>
IP65   IP67	<b>AL2384</b>

Common technical data		
Operating voltage	[V]	18...30
Current consumption	[mA]	< 200 (US)
Number of inputs		4
Type of inputs		2-, 3- and 4-wire sensors: Pt100, Pt1000 thermocouple: type K, type J
Communication interface		IO-Link, COM3 (230.4 kbaud)
Ambient temperature	[C°]	-25...60



In mining, the digitised measured temperature values can be transmitted precisely and without loss even over long distances.

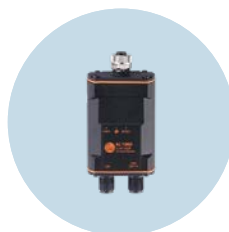
## BEST FRIENDS



**Temperature probe**  
Precise measurement of temperatures



**IO-Link masters**  
Field-compatible masters with Profinet interface



**USB IO-Link masters**  
For parameter setting and analysis of devices



For further technical details,  
please visit:  
[ifm.com/fs/AL2284](https://ifm.com/fs/AL2284)