wenglor
the innovative family

Pressure, Flow, Temperature and Fill-Level

Fluid Sensors



Product Highlights of Fluid Sensors

Robust Designs
- Available with plastic or stainless steel housing
- High degree of protection IP67/IP68/IP69K
- Reliable at high ambient and medium temperatures

High Flexibility and Functionality
- Simultaneous measurement of flow/pressure and temperature of medium depending on the product variant
- Display variants for direct reading of process values
- Different process connections available

Smart Communication
- Depending on the variant, with IO-Link interface for simplified operation and accelerated initial start-up



Numerous Usage Options

Precise pressure monitoring

Accurate flow velocity measurement

Reliable temperature measurement

Reliable limit value acquisition

Flow and Temperature Monitoring

wenglor flow sensors can be installed in pipes regardless of the flow direction and simultaneously record the flow velocity and temperature of various media. This allows immediate response if the flow velocity or temperature is exceeded or undershot.





Limit Value Acquisition for Various Media

LevelTech fill-level sensors monitor limit values in tanks, containers and piping. The sensors are capable of distinguishing between foam and liquids, as well as detecting barrier layers between different media such as oil and water. Even in the event that deposits of sticky and viscous media accumulate, their reliable switching performance is nevertheless retained.

You can find all the details and even more about fluid sensors on our website.

Pressure Sensors

Pressure sensors measure pressure in hydraulic applications, pneumatic systems and in many areas of process engineering. Depending on the version, the medium temperatures can also be measured and parametrization carried out via IO-Link.



Product	Applications	Working range*	Output types
weFlux² pressure sensor	Liquid and gaseous media	–1...400 bar	1 × analog/PNP/NPN/push-pull + 1 × PNP/NPN/push-pull/IO-Link 1 × analog 2 × analog
UniBar pressure sensor	Liquid and gaseous media	–1...600 bar	2 × PNP 1 × PNP + 1 × analog 1 × relay + 1 × analog

*The product-specific working ranges can be viewed on the website.

Temperature Sensors

Temperature sensors measure and monitor liquid and gaseous media with high accuracy and fast response times. Modular designs and process connections allow them to be used individually. Depending on the variant, the weFlux² series has IO-Link for parametrization.



Product	Applications	Working range	Output types
weFlux² temperature sensor	Liquid and gaseous media	–50...150 °C –50...200 °C	1 × analog/PNP/NPN/push-pull + 1 × PNP/NPN/push-pull/IO-Link PT100/PT1000

Flow Sensors

Flow sensors operate according to the calorimetric principle and can be mounted independently of the current direction. The sensors combine flow and temperature measurement. Parameter setting and data transfer can be carried out via IO-Link, depending on the variant.



Product	Applications	Working range	Output types
weFlux² flow sensor	Water and glycol-based media	10...400 cm/s	1 × analog/PNP/NPN/push-pull + 1 × PNP/NPN/push-pull/IO-Link 2 × analog
UniFlow flow sensor	Aqueous and oily media	Water: 10...300 cm/s Oil: 15...100 cm/s	2 × PNP 1 × PNP 1 × analog + 1 × PNP 1 × relay + 1 × analog

Fill-Level Sensors

Fill-level sensors are integrated into processes that monitor liquids, pasty, sticky or solid media such as granules or powders. Media can be reliably differentiated via the IO-Link as well as via the switching or analog output, and fill levels can be recorded solely for the relevant medium.



Product	Applications	Working range	Output types
LevelTech fill-level sensor	Liquid, pasty, sticky and solid media	Media with dielectric constant: > 1.5	1 × PNP/NPN/push-pull + 1 × PNP/NPN/push-pull/IO-Link 1 × analog + 1 × PNP/NPN/push-pull/IO-Link

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