

RELIABLE SIMPLICITY

OPTIMISE YOUR SYSTEM WITH DEDICATED TRANSMITTERS



THE DIRECT WAY TO OPTIMUM PERFORMANCE

Reliable simplicity is at the very core of Grundfos' range of direct sensors, comprising dedicated and robust solutions for measurement of flow, pressure and temperature in a wide variety of applications. The unique sensors have been specially developed for our pumps to offer perfect compatibility.

When you choose Grundfos Direct Sensors™ for your measurement requirements you are guaranteed sensors that have been specifically developed for pump applications. We are one of only a few manufacturers to offer a combined differential pressure and temperature sensor – and the only one to offer silicone-coated sensors.

Patented Silicoat® technology

The patented Silicoat® technology provides you with a number of benefits. Most importantly, the silicone offers extreme resistance to corrosion and makes for flawless operation even in aggressive media. This unique coating protects the sensor against wear and tear to prolong product lifetime. Finally, the coating allows direct contact between the sensor and the media providing a fast response time.

Easy installation

Grundfos Direct Sensors™ require no configuration upon installation. They simply need to be mounted between the pipes and plugged in to begin reliable operation. Loose flanges further facilitate installation, by providing a perfect fit on the pipeline.

Application areas

The compact design makes the sensor range suitable for a wide range of applications:

- > Chiller systems
- > Temperature control
- > Heat pumps
- > Solar thermal systems
- > Water treatment and distribution
- > Light chemical industry
- > Process industry
- > Water management
- > Wash and clean.



The sign of top industrial quality

The characteristic stainless steel Grundfos Industrial Solutions sign symbolises our commitment to industrial professionals. Our pump ranges cover it all: cleaning, dosing, water treatment, water supply, wastewater, cooling, boiler feeding, heating, fire protection and general or sanitary processing. In addition to the extensive pump portfolio we offer a variety of pump-related solutions, including sensors, monitors and control units.



DPI/DPI+T

Benefit from reliable differential pressure measurement with the unique direct sensor that eliminates the need for pressure sensors on both sides of the pump. The sensor can be delivered as a combined differential pressure and temperature sensor.

- > **Pressure range:** 0..0.6 to 0..0.16 bar
- > **Media temperature:** -30 °C to 120 °C
- > **Max. pressure:** 25 bar (60 bar burst pressure)
- > **Measuring range:** 0 °C to 100 °C
- > **Material:** Stainless steel
- > **Output (press.):** 4 to 20 mA
- > **Output (press. + temp.):** 2 x 0 to 10 V



RPI/RPI+T

The pressure sensor efficiently combines pressure and temperature measurement in just one sensor. By transforming the pressure and temperature of the medium into electrical signals, the sensor offers very accurate measurement in almost any liquid.

- > **Pressure range:** 0..0.6 to 0..0.25 bar
- > **Media temperature:** -30 °C to 120 °C
- > **Max. pressure:** 25 bar (60 bar burst pressure)
- > **Measuring range:** 0 °C to 100 °C
- > **Material:** Stainless steel
- > **Output (press.):** 4 to 20 mA
- > **Output (press. + temp.):** 2 x 0 to 10 V



FLOW (VFI)

The flow sensor successfully combines the established vortex principle with the patented Silicoat® technology. The result is an affordable and accurate direct flow sensor designed for reliable operation in aggressive media.

- > **Flow range:** 0.3 m³/h to 240 m³/h
- > **Media temperature:** -30 °C to 120 °C
- > **Output:** 4 to 20 mA
- > **Measuring range:** 0 °C to 100 °C
- > **Material:** Stainless steel



INTEGRATED SENSORS

The integrated sensor is ideal for OEMs and system builders who want affordable and reliable flow and pressure measurement. The integrated sensors are available as flow, differential and relative pressure. All with combined temperature measurement.

- > **Flow range:** 1-400 l/min
- > **Pressure range:** Relative: 0-16 bar Differential: 0-6 bar
- > **Media temperature:** 0-100 °C
- > **Measuring range:** 0-100 °C
- > **Output:** Ratiometric (0.5-3.5V/0.5-4.5 V)
- > **Material:** Composite (PPA)



ABOUT GRUNDFOS

Grundfos Direct Sensors™ are part of the extensive Grundfos portfolio of pumps and pump systems. Every solution is backed by decades of solid know-how and a desire to push the boundaries for innovative pump technology – and naturally provides reliable, efficient performance. As a truly global company, Grundfos offers you easy access to sales, support and service professionals in 55 countries around the world. Wherever you are based, extensive pump and pump application expertise will be available to you in your local language.

Explore the complete Grundfos portfolio at www.grundfos.com