

SIEMENS



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Innovative flow sensors for measurable quality

The comprehensive range of Symaro sensors now also meets the requirements of energy-efficient flow measurement.

Whether for measuring temperature, pressure, humidity, air quality and now flow, Symaro offers you a transparent, clearly structured range of sensors for typical HVAC measurements and applications.

Flow sensors from Siemens for every type of application when it comes to liquid or air flow! From flow sensors to flow switches and velocity sensors, Symaro™ includes all types of sensors you require to make accurate flow measurements.

The sensors acquire and transmit the measured values very fast and accurately, providing an optimum basis to ensure energy- and cost-efficient control of the entire HVAC plant.

All flow sensors are available with DC 0...10 V or 4...20 mA outputs, making them suitable for a wide choice of applications.

What's more, the functionality of the proven air velocity sensor QVM62.1 has been extended to 4...20 mA, offering a broader field of use.

This extensive portfolio of sensors will convince you!

Answers for infrastructure.



The right flow sensor for every type of application

The new vortex flow sensors for liquid media offer a large variety of analog outputs. They are available in glass-fiber reinforced plastic or rugged red brass. The sensors contain no moving parts, which makes them dirt-resistant and ensures an excellent media resistance. This results in a long product life and long-term stability.

Four nominal sizes are available: DN 10, DN 15, DN 20 and DN 25. Therefore, flow ranges from 1.8 to 150 l/min are covered. Media include domestic hot water, heating water and the commonly used water-glycol mixtures.

High accuracy, excellent EMC characteristics, a small pressure drop and versatility in a broad temperature range round off the benefits offered by the Symaro flow sensors.

Maintenance-free flow switches

To monitor the flow of liquid media in hydraulic systems – especially in refriger-

ation, heat pump and heating plants – the new flow switches made of glass-fiber reinforced plastic are the ideal choice. They are supplied with a brass pipe section and feature a Reed contact, which is actuated by a magnetic field, absolutely contact-free and without a reset spring. The switching point therefore remains stable. The switches operate in a pressure range up to 10 bar without using bellows, which means that the switching point is independent of pressure. As a result, it only depends on the volumetric flow.

The new flow switches also offer nominal sizes from DN 10 to DN 25. In this field, Symaro now covers nominal sizes from DN 10 to DN 200.

Velocity sensor of rugged design

The air velocity sensor has three measuring ranges: 0...5, 0...10, and 0...15 m/s. Thanks to its specifically developed thin-film sensing element, the measuring result is independent of the direction of flow across a wide range. What's more, it is dirt-resistant.

Highlights

- Suited for all types of flow applications – for versatile use in liquids and air
- Fast and accurate transmission of measured values to ensure energy and cost efficiency
- More flexibility thanks to DC 0...10 V, 4...20 mA, or switching contact outputs
- Excellent media resistance
- Long product life and long-term stability
- Dirt-resistant
- Stable switching point, independent of pressure