The Smart Flow Rate Sensor For Optimized Energy Efficiency

AF2 Series IIOT-Capable Flow Rate Sensor

- Large measurement range and integrated pressure sensor enable a broad spectrum of applications

- Wide range of customizable analog and switch outputs

- Comprehensive communication options via IO-Link or Ethernet interface

- Large OLED display for excellent readability

- High flexibility for system integration

- Easy assembly and handling

- For installation in maintenance units (configurable) or as a sensor/filter combination

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Keep Airflow Under Control No Matter What

The new AF2 series flow rate sensor monitors air consumption in pneumatic systems, enabling fast action in case leaks are detected. It helps you optimize energy consumption, prevent machine downtime, and cut costs.

Greater energy efficiency, lower costs

The AF2 determines not only the flow, but also the current pressure in the feed line, enabling advanced diagnosis of the system operating parameters. The data is forwarded to the control either via standard switch or analog outputs, or through IO-Link. Data can also be communicated directly via the Ethernet interface. This allows information on the current or cumulative energy consumption to be passed straight on to the relevant parent system without requiring the machine control. The AF2 represents a true IIOT component.

The flow ranges of AF2 variants are ideally tailored to our AS family maintenance unitsand can be configured accordingly. Of course, the sensor/filter combination can also be used separately. The large, configurable OLED display clearly conveys all operating data. Various visualizations for measurements as well as process curves and cumulative values are possible.

1 | Direct mounting
Maintenance units
2 | With rack assembly
set (Filter 5 μm)

Series	AF2
Pressure range	0 … 16 bar
Flow range	5 l/min…1.060 l/min* /…1.590 l/min * * 8 l/min…1.630 l/min* /…2.445 l/min* * 22 l/min…4.326 l/min* /…6.490 l/min**
Communication	Industrial: IO-Link, 2x analog, 2x switching, 1x frequency, 1x pulse output (configurable) Ethernet: WebServer / OPC UA / MQTT
Measurement precision	+/- 3 % of the measured value + 0.3 % of the measurement range final value*+/- 8 % of the measured value + 1 % of C20the measurement range final value * *
Repeatability	± 1.5% of the measured value
Temperature range	-20 °C to +60 °C
Operating voltage	17 to 30 V DC
Protection class	IP65 and IP67 (EN 60529) with approved connection cable

*   Standard measurement range
* * Extended measurement range

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