Product innovation

Programmable flow sensor Series SNS 552







Compact - Precise - Multifunctional

- Flow measurement of waterbased liquids
- Temperature measurement
- Pipe diameter adjustable
- Teach-in functions
- Manipulation detection

Application

The SNS 552 GAPL is a thermal flow sensor, for detection of the flow speed and the temperature of waterbased liquid medias in a pipeline. With the parameterizable inner diameter of the measuring pipe it calculates the current fluid consumption and displays it in the easy-to-read display in litres per minute or cubic metre per hour. For monitoring the flow condition the sensor has two independent switching outputs or an analog current output.

Functions (Selection)

- Displayed measurand and unit of measurement selectable
- · Configurable outputs
- 180° flipping of display
- · Status LEDs for units and switching outputs
- TAG ID
- IO-Link Device V1.1
- Teach-in functions executable with IO-Link commands
- Input for external control signal
- User groups configurable

Type

SNS 552 GAPL P11389 • M18 • 3 m/s

Accessories

Screw-in adapter, IOL-Master-Set V1.1

IO-Link

IO-Link is a point-to-point communication interface include enabling parametrization of sensors and actuators using a PC / Notebook and an interconnected master module.



Installation

The adapter is screwed into a T-piece or a welding sleeve. The SNS 552 is secured in this adapter using a union nut. The connection is reliably sealed up to 100 bar. Various designs of the screw-in adapter allow the universal use of the flow sensor. For best readability the display part of the housing is continuously rotatable up to 330° against the sensor part.

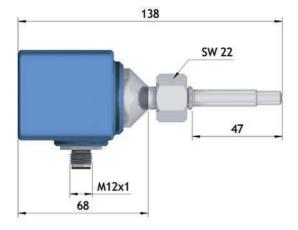


Operation and display

The sensor is parametrized using the front buttons or the IO-Link interface. The 3-digit display shows the measurement values which can be sent as process data to an PLC via the IO-Link connection.









Technical data

Detection range

Flow water [m/s] 0.05...3.00

[l/min] Depends on pipe diameter [m³/h] Depends on pipe diameter

Temperature [°C] 0.0...80.0 Internal pipe diameter [mm] 15...200

ID-No. P11389

Type SNS 552 GAPL

Flow deviations 1

Output S1 PNP-NO/NC, NPN-NO/NC, IO-Link, pulse PNP-NO Output S2 PNP-NO/NC, NPN-NO/NC, Analog 4...20 mA, input for outpred control cont

input for external control signal

18...30 DC Supply voltage [V] ≤120 Current consumption max. [mA] ≤150 [mA] Switching current -10...+60 Ambient temperature [°C] Medium temperature [°C] 0...+80 10 Start-up time [s] Reaction time <1 [s] Compressive strength [bar]

Sensor material

Housing material

Display flow

Stainless steel AISI 316 L

PBT, stainless steel

3-digits, 7-segment blue

Protection [EN 60529] IP 67

Connection M12 connector

Programmable functions Operating modes: Hysteresis function, window function,

fault monitoring, pulse output, analog output

Extended functions: Min/ Max/ average value memory, customized ID, display configuration, selectable units of measurement and pipe diameter, access restrictions

IO-Link V1.1, COM2, 3.5 ms, SIO-Mode supported

Accessories IOL-Master-Set V1.1, screw-in adapter

¹ under reference conditions