# **Product innovation**

Programmable flow sensor
Series SNS 552 SNS 552 GAPL EE10417







# Compact - Precise - Multifunctional

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



A E V

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.

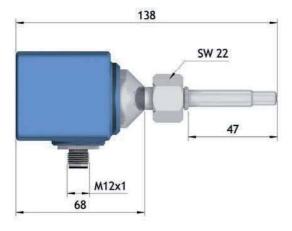


# Operation and display

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 [m<sup>3</sup>/h] Depends on pipe diameter

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

P11389 ID-No. **SNS 552 GAPL Type** 

Flow deviations 1

from measurement value 8 [±%] 2 from measurement range end value [±%] 2 Reproduceability [±%] Temperature deviation [±°C]

Output S1 PNP-NO/NC, NPN-NO/NC, IO-Link, pulse PNP-NO PNP-NO/NC, NPN-NO/NC, Analog 4...20 mA, Output S2

input for external control signal

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

Sensor material Stainless steel AISI 316 L PBT, stainless steel Housing material 3-digits, 7-segment blue Display flow

Protection [EN 60529] IP 67

<sup>1</sup> under reference conditions

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