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

Туре

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 Temperature Internal pipe diameter	[m/s] [l/min] [m³/h] [°C] [mm]	0.053.00 Depends on pipe diameter Depends on pipe diameter 0.080.0 15200
ID-No. Type		P11389 SNS 552 GAPL
Flow deviations ¹ from measurement value from measurement range end val Reproduceability Temperature deviation Output S1 Output S2	[±%] ue [±%] [±%] [±°C]	8 2 2 2 PNP-NO/NC, NPN-NO/NC, IO-Link, pulse PNP-NO PNP-NO/NC, NPN-NO/NC, Analog 420 mA,
Supply voltage	[V]	input for external control signal
Current consumption max. Switching current Ambient temperature Medium temperature Start-up time Reaction time Compressive strength Sensor material Housing material Display flow	[v] [mA] [°C] [°C] [s] [bar]	 ≤ 120 ≤ 150 −10+60 0+80 10 < 1 60 Stainless steel AISI 316 L PBT, stainless steel 3-digits, 7-segment blue IP 67 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		

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