

Cos High Temperature Sensor

Product highlights

- High temperature and pressure resistance
- Inline stainless steel body
- Low pressure drop
- Robustness against dirt water
- Operable in glycol-water mixtures



Applications

- Tempering devices for plastic molding
- Solar heating systems
- Industrial cooling systems
- other applications

Description

The COS-type ultrasonic flow sensor is a compact device that is suitable for operation with high temperatures and pressures due to the robust metallic body. Temperature and flow measurements are provided electrically through a cable or visually via an LCD display.

Related products



L-TYPE SENSOR INDUSTRIAL

L-TYPE SENSOR WITH DISPLAY

INLINE HYGIENIC SENSOR

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1. Technical data

1.1. FLOW MEASUREMENT

Measurement element:	Ultrasonic transducers
Measurement range:	10-3000 l/h
Accuracy:	±3% see FLOW ACCURACY TABLE for details
Repeatability:	±1%
Response time:	< 1s

1.2. TEMPERATURE MEASUREMENT

Measurement element:	1x PT1000
Measurement range:	0 -180 °C
Accuracy:	±2K
Repeatability:	± 0.15K
Response time:	<1s

2. Environmental data

2.1. OPERATING CONDITIONS

Mediums:	Water, Water + Glycol mixture, Oil
Operating temperature:	0 – 160 °C
Over temperature:	180°C
Ambiental temperature:	- 25 - + 100 °C
Operating pressure:	0 – 16 bar
Over pressure:	20 bar
Burst pressure:	32 bar
Protection class:	IP 54
Relative humidity:	< 95% rh
Lifetime:	>5 years

2.2.SUSTAINABILITY

RoHS:	Compliant
Reach:	Compliant

2.3.MATERIALS

Wetted parts:	STAINLESS STEEL, AFLAS
Non-Wetted parts:	PPS

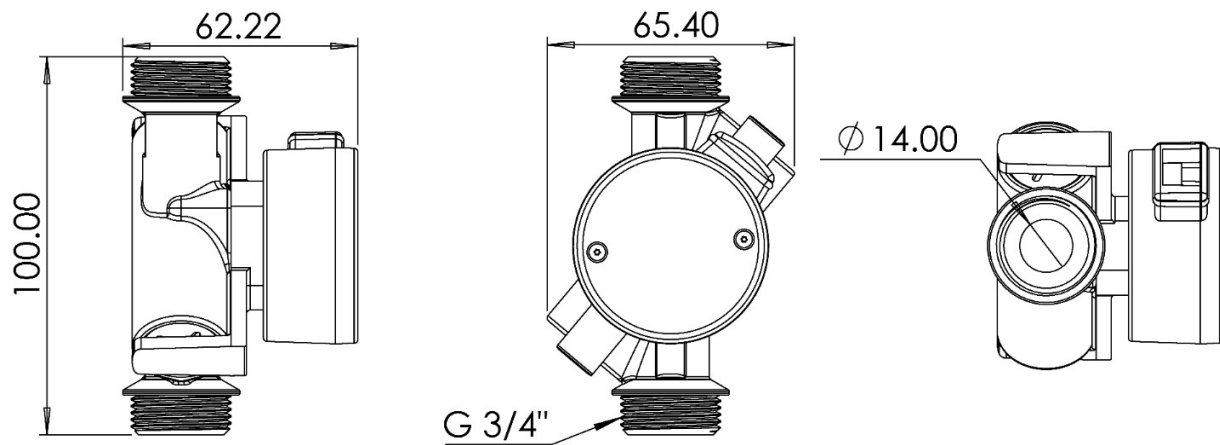
3. Electrical data

Power supply:	12-24 VDC
Current consumption:	< 30 mA @24 VDC
Electrical interface:	Flying leads / Connector on request
3.1. OUTPUT SIGNALS	
Flow:	Pulse or analog 0 – 5V output
Temperature:	ANALOG 0 – 5V

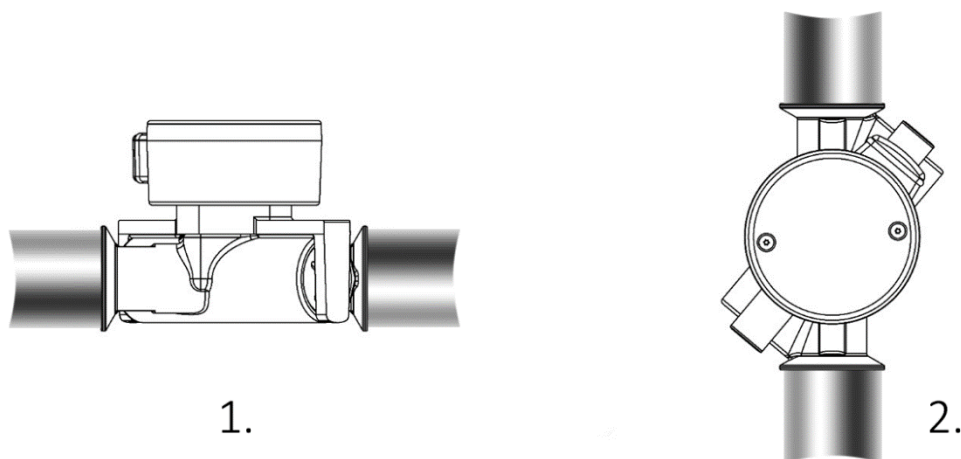
4. Mechanical

Hydraulic connections:	G $\frac{3}{4}$ " external threads
Internal diameter:	Ø14mm
Pressure loss:	45 mBar @ 3000 L/h
Weight:	420 g

4.1. DIMENSIONS

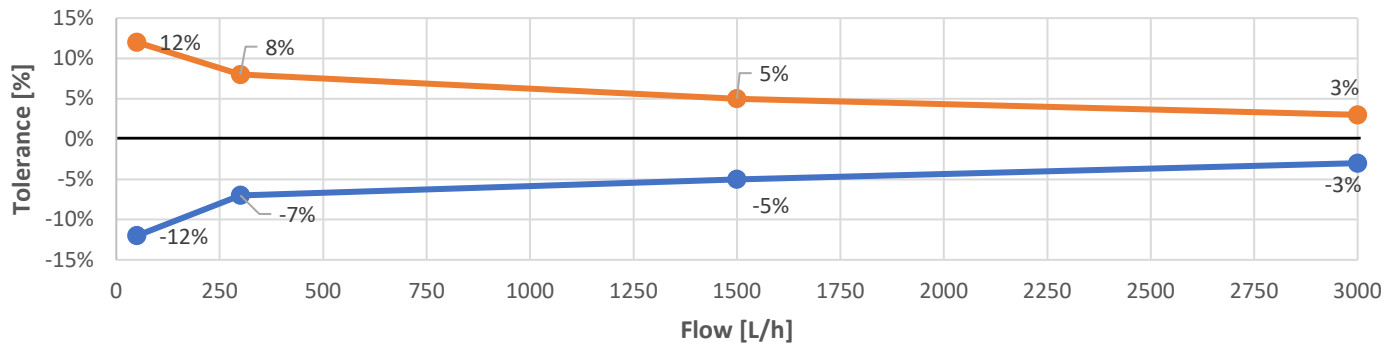


4.2. INSTALATION NOTES (Recommended)



5. Special Notes

5.1. FLOW ACCURACY TABLE



5.2. DISPLAY

Type:	LCD with 7 segments
Outputs:	Alternating between temperature and flow
Refresh rate:	1s



About Allengra

Allengra GmbH based in Germany and Romania, founded in 2005, is capable to develop and produce OEM devices for ultrasonic flow sensors and control valves for liquids and gases tailored on the end client application.

We have the complete development process in our company and we are able to transform an idea into a robust serial product thanks to the various engineering departments and prototyping skills.

The core technology of Allengra, ultrasonic metering has been refined over the years to a level where both integration into high-end devices and cost-effective applications are possible.

Allengra provide metering and regulating solutions for in industries such as gas heating boilers, automatic coffee machines, robotic scrubbers, industrial automation and much more.

Do you have a project that needs a flow, temperature, pressure measurement or an electric valve?

Do not hesitate to contact us at info@allengra.eu for a solution.
