

▶ Process gases always under control

KROHNE

▶ *achieve more*

▶ **OPTISONIC 7300 – Highly precise ultrasonic flowmeter for gases**

KROHNE's new OPTISONIC 7300 2-beam ultrasonic measuring device determines the flow of process gases with maximum precision and longevity. Thanks to the newly designed titanium sensors and innovative signal processing, process gases with different and changing compositions as well as noise no longer lead to measurement errors.

Once the OPTISONIC 7300 has been calibrated it measures for years – without maintenance or subsequent calibration – with an accuracy of 1 % of the measured value. The robust design typical of KROHNE and the wide range of applications make using the device particularly cost-effective.



OPTISONIC 7300

Precise even in difficult situations.

The OPTISONIC 7300 makes the ultrasonic flow measurement of gas even more precise than before. The ultrasonic method of flow measurement has always been considered superior to traditional measuring techniques such as orifice measurement or measuring with turbine meters because it does not cause pressure loss and is maintenance-free. Only fluctuating process conditions and external sources of sound such as valve noises led to measurement errors. But those things are now a thing of the past: Thanks to the particular material properties and the special damping technology of the new titanium sensors, the noise waves are perfectly focused. In addition, the innovative signal processing eliminates errors. That means that the device can now be used where previously traditional measuring techniques had to be used.

Durable and reliable.

Following the initial calibration, the device provides you with exact measuring results with an accuracy of 1 % – without maintenance or subsequent calibration. This holds true for gas temperatures up to 180 °C and pressures up to 150 bar. The evaluation unit can be installed as a compact version at the measuring site or separately. It also contains a flow calculator for pressure and temperature compensation to calculate the standard volume.

Quality by KROHNE.

The OPTISONIC 7300 features KROHNE's well-known sturdy design which boasts no moving parts or parts protruding into the measuring tube, ensuring a long service life. The result is extremely cost-effective operation thanks to the large dynamic spectrum and operational readiness as regards gas composition, density, pressure, temperature and volume flow.

Highlights:

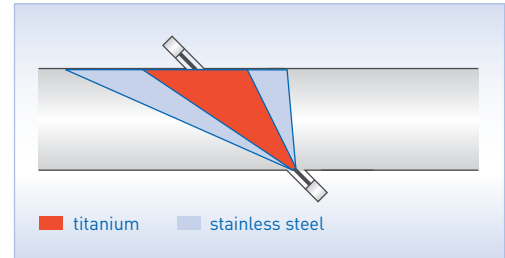
- Integrated volume flow calculation with external pressure and temperature sensors
- Measurement independent of gas properties
- No moving parts in the measuring tube
- No pressure loss
- No maintenance or recalibration
- Measuring accuracy 1 % of the measured value
- Evaluation unit can be mounted compact or remotely
- For nominal sizes DN 50 to DN 600
- Pressure ratings up to 150 bar, higher on request
- Max. medium temperature 180 °C
- Ex-approval for Zone 1

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Focused sensor signal

The signal of KROHNE's titanium sensors, better focused than stainless steel sensors, equalises process fluctuations and avoids acoustic feedback.



Pressure and temperature compensated volume measurement

In combination with pressure and temperature sensors, OPTISONIC 7300 measures the standard volume of gas.

