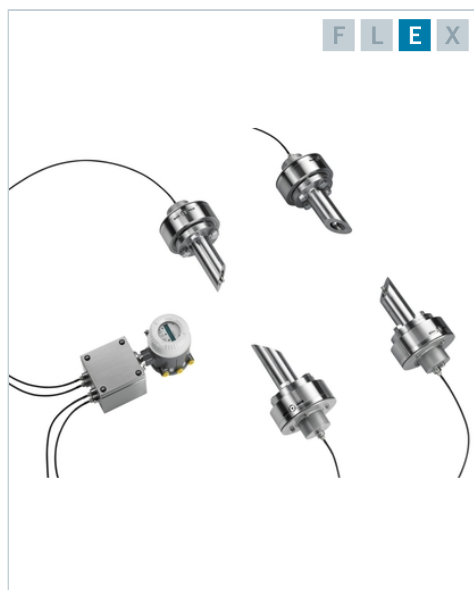


FLAWSIC300

ultrasonic flow measurement instrument

Non-custody transfer measurement and process monitoring



More information and current pricing:

www.endress.com/IFL300

Benefits:

- Simple installation into existing pipelines
- Efficient solution, especially for pipe diameters over 12 inches, thanks to installation onto existing pipelines and without need for a meter body
- Reduced acquisition costs – the sensor extraction tool can be used for multiple devices
- Low maintenance, wear and no deterioration
- Low operating costs thanks to automated diagnostics and condition-based maintenance
- Suitable for installation in underground compartments via remote electronics and sensors with enclosure rating IP 68

Specs at a glance

- **Measured variables** Volumetric flow a. c., volume a. c., gas velocity, sound velocity
- **Measuring range** Gas velocity 0.3 ... 60 m/s Depending on the nominal size of the pipe

Field of application: The FLEWSIC300 ultrasonic flowmeter features a unique combination of high quality components, large measuring range, simple installation, and low installation costs. It can be used anywhere where custody approval is not required: For internal measurements in the natural gas grid and with process measurements in the petrochemical industry. FLEWSIC300 incorporates proven technology and components of the rugged custody transfer quality gas flowmeters for custody transfer.

Features and specifications

Gas

Measuring principle

Ultrasonic transit time difference measurement

Measured variables

Volumetric flow a. c., volume a. c., gas velocity, sound velocity

Measuring range

Gas velocity 0.3 ... 60 m/s

Depending on the nominal size of the pipe

Max. Measurement error

Max. 1:130

Medium temperature range

-40 °C ... +180 °C

Operating pressure range

10 bar (g) ... 100 bar (g)

Nominal pipe size

4 " ... 56 "

Hazardous area approvals

ATEX: II 1/2G Ex de iB [ia] IIC Ta

The ultrasonic transducers are intrinsically safe: "ia"

Outputs

3 outputs:

Passive, electrically isolated, Open Collector or according to NAMUR (EN 50227), fmax = 6 kHz (scalable)

Digital Outputs

5 relay outputs (change-over contacts), potential-free:

- 48 V AC, 1 A

Safety extra-low voltage; for status signals "operation/malfunction", "limit value", "warning", "maintenance" and "check cycle"

Gas

Digital communication

ASCII RS-485

RTU RS-485

More information www.endress.com/IFL300