

FLWSIC100

ultrasonic flow measurement instrument

Volume flow measuring devices for continuous emission monitoring



FLEX

Benefits:

- Reliable flow measurement for ducts with small up to very large diameters
- No purge air required for applications with gas temperatures up to 260 °C
- Minimum operating and maintenance costs
- Accurate measuring results under difficult measuring conditions
- Measurement without pressure loss, therefore no influences on the process
- User-friendly operation via **SOPAS ET software**
- Reliable function monitoring due to enhanced diagnosis

Specs at a glance

- **Measured variables** Volumetric flow a. c., volumetric flow s. c., gas velocity, sound velocity, gas temperature
- **Measuring range** Gas Velocity: 0 ... ± 40 m/s

More information and current pricing:

www.endress.com/IFL100

Field of application: FLOWSIC100 was designed for emission monitoring tasks. The "H" versions are suitable for stacks with large diameters and applications with high dust content. The ultrasonic transducers of the "PR" probe type are mounted with fixed path length on one sender/receiver unit (measuring probe). The "AC" versions have an innovative internal cooling and are suitable for gas temperatures up to 450 °C. The purged "Px" versions are used for gases with high concentrations of sticky or wet dust.

Features and specifications

Gas

Measuring principle

Ultrasonic transit time difference measurement

Measured variables

Volumetric flow a. c., volumetric flow s. c., gas velocity, sound velocity, gas temperature

Measuring range

Gas Velocity: 0 ... ± 40 m/s

Medium temperature range

-40 °C ... +260 °C

Operating pressure range

-100 hPa ... 100 hPa

Nominal pipe size

0,15 ... 13m

Conformities

2001/80/EC (13. BImSchV)

2000/76/EC (17. BImSchV)

27. BImSchV

30. BImSchV

TA-Luft (Prevention of Air Pollution)

EN 15267

EN 14181

EN 16911-2

MCERTS

GOST

Outputs

1 output:

0/2/4 ... 20 mA, + 750 Ω

Electrically isolated, up to five outputs when add-on modules are used (option)

Gas

Digital Outputs

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

+ 48 V, 1 A

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

Digital communication

ASCII RS-485 (via optional interface module)

RTU RS-485 (via optional interface module)

TCP (via optional interface module)

Profibus (Via optional interface module)

More information www.endress.com/IFL100