Volume flow measuring system

Measuring system to measure flow rate in dry emissions with a probe using the differential pressure principle

Features
- Reliable measurement of the gas velocity even at high temperatures
- Calculation of volume flow at standard conditions
- Automatic zero check option
- Certified, cost effective measuring system
- Versions with or without counter-support and for point measurement
- Extremely low maintenance, maintenance interval 6 months
- Convenient operation via remote access with web interface

Applications
- Volume flow measurement at high temperatures
- Plants with large or small flue cross-sections
- Volume flow measurement at high pressure

Approvals
- Suitability-tested by the TÜV Cologne, test report 936/21218492/A
- Approved and certified acc. to EN 15267-3
- MCERTS

Measuring principle

The D-FL 100 measuring system operates according to the differential pressure principle. The probe has two separate chambers between which the flow builds up a differential pressure. The evaluation unit determines the gas velocity and the volume flow (norm conditions or standard conditions) from the differential pressure, taking into account gas temperature and gas pressure.

Models
- D-FL 100 probe assembly with assembly of measuring transducer on the probe
- D-FL 100 hose assembly with the measuring transducer connection via hose line

Probes
- Probe 1: 0.4 ... 2 m
- Probe 2: 2 ... 4 m
- Probe 3: 4 ... 8 m

System components
- Flow probe
- Mounting flange
- Differential pressure transducer
- Cross-over cock
- Probe adapter
- Evaluation unit D-FL100-20
- Absolute pressure transducer
- Temperature transducer
- Counter-support (option)

Options
- Universal operating unit D-ISC 100
- Service software D-ESI 100
- Weather protection covers
- Automatic back purging device
- Special designs in other materials for applications with particularly aggressive exhaust gases or high gas temperatures
- Differential pressure transducer in Ex-version

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