TYP VME

FOR THE MEASUREMENT OF VOLUME FLOW RATES IN DUCTS

Rectangular volume flow rate measuring units for the recording or monitoring of volume flow rates

- Manual volume flow rate measuring
- Permanent volume flow rate measuring
- Recording of measured values and use for slave controllers
- Suitable for airflow velocities of up to 10 m/s
- Pressure transducer for the automatic recording of measured values, factory-assembled and complete with wiring and tubing
- Casing air leakage to EN 15727, class C

Application

Application

- Rectangular volume flow rate measuring units Type VME for the manual recording or automatic measuring of volume flow rates
- Simplified commissioning, approval and maintenance
- Suitable for permanent installation because of low differential pressure

Special features

- Measurement accuracy ± 5 % even with unfavourable upstream conditions
- Effective pressure range: approx. 8 – 200 Pa
- Low differential pressure of only about 17 – 32 % of the measured effective pressure

Description

Construction

- Galvanised sheet steel
- P1: Powder-coated, silver grey (RAL 7001)

Parts and characteristics

- Ready-to-commission unit which consists of the mechanical parts and an optional pressure transducer
- Averaging differential pressure sensor for volume flow rate measurement
- Optional factory-assembled pressure transducers complete with wiring and tubing
- High measurement accuracy

Attachments

- Dynamic differential pressure transducer
- Static differential pressure transducer

Construction features

- Rectangular casing
- Flanges on both sides, suitable for duct connection
- Connecting nipple for tubes with 6 mm inside diameter

Materials and surfaces

- Casing made of galvanised sheet steel
- Aluminium sensor tubes

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Functional description

The measuring unit is fitted with an effective pressure sensor for measuring the volume flow rate.

The effective pressure is either measured and evaluated manually, or transformed into an electric signal by a pressure transducer.

Nominal sizes	200 × 100 – 1000 × 1000
Volume flow rate range	45 – 10100 l/s
Volume flow rate range	162 – 36360 m^3/h
Measurement accuracy	± 5 % of the measured value
Effective pressure range	approx. 8 – 200 Pa
Differential pressure	17 – 32 % of the measured effective pressure
Operating temperature	10 – 50 °C

Rectangular volume flow rate measuring unit for the measurement of volume flow rates in air conditioning systems, available in 39 nominal sizes.

For the manual volume flow rate measuring or for the permanent monitoring of the actual value signal.

Ready-to-commission unit which consists of the casing with an averaging differential pressure sensor.

Differential pressure sensor with 3 mm measuring holes (resistant to dust and pollution)

Both ends suitable for the connection of air duct profiles.

Casing air leakage to EN 15727, class B.

Special features

- Measurement accuracy ± 5 % even with unfavourable upstream conditions
- Effective pressure range: approx. 8 – 200 Pa
- Low differential pressure of only about 17 – 32 % of the measured effective pressure

Materials and surfaces

- Casing made of galvanised sheet steel
- Aluminium sensor tubes

Construction

- Galvanised sheet steel
- P1: Powder-coated, silver grey (RAL 7001)

Technical data

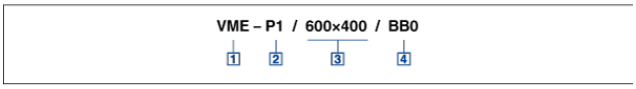
- Nominal sizes: 200 × 100 to 1000 × 1000
- Volume flow rate range: 45 – 10100 l/s or 162 – 36360 m³/h
- Differential pressure: 17 – 32 % of the measured effective pressure

Attachments

Volume flow rate measurement with dynamic differential pressure transducer with actual value signal for integration into the central BMS.

- Supply voltage 24 V AC/DC
- Signal voltages 0 – 10 V DC or 2 – 10 V DC

VME



1 Type
VME Rectangular volume flow rate measuring unit

2 Material
No entry: galvanised sheet steel
P1 Powder-coated, silver grey (RAL 7001)

3 Nominal size [mm]
B × H

4 Differential pressure transducer
No entry: none
B10 Dynamic differential pressure transducer
BB0 Static differential pressure transducer