

The art of handling air

Type VMR



FOR THE MEASUREMENT OF VOLUME FLOW RATES IN DUCTS

Circular 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 for other controllers or for the LABCONTROL air management system
- 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

Optional equipment and accessories

- With flanges on both ends
- Lip seal
- Dynamic or static differential pressure transducers



Application

- Circular volume flow rate measuring units Type VMR 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
- Optional static differential pressure transducer for systems with polluted air

Special characteristics

- Measurement accuracy $\pm 5\%$
- Low differential pressure of only about 10 – 26 % of the measured effective pressure

Nominal sizes

- 100, 125, 160, 200, 250, 315, 400

Variants

- VMR: Volume flow rate measuring unit
- VMR-FL: Volume flow rate measuring unit with flanges on both ends

Construction

- Galvanised sheet steel
- P1: Powder-coated, silver grey (RAL 7001)
- A2: Stainless steel

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 (even with upstream bend $R = 1D$).

Attachments

- Dynamic differential pressure transducer
- Static differential pressure transducer
- LABCONTROL: Components for air management systems

Accessories

- Lip seals on both ends (factory fitted)
- Matching flanges for both ends

Construction features

- Circular casing
- Spigot suitable for circular ducts to EN 1506 or EN 13180
- Spigot with groove for lip seal
- Connecting nipple for tubes with 6 mm inside diameter
- VMR-FL: Circular flanges to EN 12220

Materials and surfaces

Galvanised sheet steel construction

- Casing made of galvanised sheet steel
- Aluminium sensor tubes

Powder-coated construction (P1)

- Casing made of galvanised sheet steel, powder-coated
- Sensor tubes made of aluminium, powder-coated

Stainless steel construction (A2)

- Casing made of stainless steel 1.4301
- Sensor tubes made of aluminium, powder-coated

Standards and guidelines

- Hygiene conforms to VDI 6022
- Casing air leakage to EN 15727, class C

Maintenance

- Maintenance-free as construction and materials are not subject to wear
- Zero point correction of the static differential pressure transducer should be carried out once per year (recommendation)

TECHNISCHE INFORMATION

Function, Technical data, Specification text, Order code, Produktbeziehungen 

Variants, Attachments, Dimensions and weight 

Installation details, Commissioning, Basic information and nomenclature 

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