kerberos

IP65 | RS485 ModBUS

KET-MPA-000

Applications

Accounting

Flow meter for compressed air and gas insertion or inline

- **Max pressure 16 bar**
- **Reliability of the measurement**
- **Can be installed in a pressurised system without interruption of flow**
- **Non-return protection**

The **KET-MPA** flowmeter is based on the **thermal mass flow** rate and is ideal for measuring the flow of **compressed air and gas**.
Available as an insert for pipes from DN50 (2") to DN300 (12") or in-line for pipes from DN15 (1/2") to DN40 (1 1/2").
With the KET-MPA, the consumption of compressed air, nitrogen, CO2 or other non-corrosive and non-flammable gases can be measured up to a pressure of 16 bar (232 PSI).
The insertion flow meter can be mounted/disassembled under pressure **without interruption of the flow**, safely with non-return protection.

Technical Features

General specifications	**Protection Range**: Inline: IP65 **Operative Temperature**: -20 ÷ +80 °C **Storage Temperature**: -20 ÷ +60 °C **Relative Humidity**: MAX 99% not condensing
Power supply	**Supply Voltage**: 18 ÷ 30 VAC / VDC **Consumption**: Max 200 mA **Connectors types**: Cable gland M16x1.5 (optional connector M12x1 8pol.)
Rs485 interface	**Supported Protocols**: ModBUS RTU
Analog inputs	**Analog Inputs**: 4 - 20 mA for pressure sensor
Digital outputs	**Channels**: Pulse of lenght 0.02 ÷ 2 sec
Analog outputs	**Output Type**: Voltage: 0 ÷ 10 V max. 1 mA; Current: 0 ÷ 20 mA and 4 ÷ 20 mA RL<500 Ohm
Rele' outputs	**Voltage Output**: 44 VDC **Maximum Rated Current**: 500 mA
Compressed air flow meter	**Measurand**: Volumetric flow at standard conditions acc. DIN 1343; P0 = 1013.25 mbar (14.7 PSI); T0 = 0 °C (32 °F) **Measure Range**: Insertion: 0.2 ÷ 200 Nm/s; Inline: varies according to DN, from 0.32 ÷ 63 Nm³/s (DN15) to 2.26 ÷ 452 Nm³/s (DN40) **Accuracy**: ± (1.5% of measuring value + 0.8% of full scale) **Temperature Coefficient**: ± (0.1% of measuring value / °C) **Pressure Coefficient**: +0.5% of measuring value / bar **Response Time**: < 1 s **Tube Diameter**: Insertion: Ø 50 ÷ 300 mm; Inline: Ø 15 ÷ 40 mm
Certifications	**Referends Standard**: EN61326-1, EN61326-2-3 **Approvals**: CE