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.

| CODE | TUBE DIAMETER | VERSION |
|---|---|---|
| KET-MPA-015 | DN 15 (1/2”) | In Line |
| KET-MPA-020 | DN 20 (3/4”) | In Line |
| KET-MPA-025 | DN 25 (1”) | In Line |
| KET-MPA-032 | DN 32 (1 1/4”) | In Line |
| KET-MPA-040 | DN 40 (1½) | In Line |
| KET-MPA-050 | DN 50 (2”) | Insertion |
| KET-MPA-065 | DN 65 (2 1/2”) | Insertion |
| KET-MPA-080 | DN 80 (3”) | Insertion |
| KET-MPA-100 | DN 100 (4”) | Insertion |
| KET-MPA-200 | DN 200 (8”) | Insertion |
| KET-MPA-125 | DN 125 (5”) | Insertion |
| KET-MPA-150 | DN 150 (6”) | Insertion |
| KET-MPA-250 | DN 250 (10”) | Insertion |
| KET-MPA-300 | DN 300 (12”) | Insertion |

**Technical Features**

| | |
|---|---|
| General specifications | **Protection Range**: Inline: IP65<br>**Operative Temperature**: -20 ÷ +80 °C<br>**Storage Temperature**: -20 ÷ +60 °C<br>**Relative Humidity**: MAX 99% not condensing |
| Power supply | **Supply Voltage**: 18 ÷ 30 VAC / VDC<br>**Consumption**: Max 200 mA<br>**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 |

| Technical Features | |
|---|---|
| Rele' outputs | **Voltage Output**: 44 VDC<br>**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)<br>**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)<br>**Accuracy**: ± (1.5% of measuring value + 0.8% of full scale)<br>**Temperature Coefficient**: ± (0.1% of measuring value / °C)<br>**Pressure Coefficient**: +0.5% of measuring value / bar<br>**Response Time**: < 1 s<br>**Tube Diameter**: Insertion: Ø 50 ÷ 300 mm; Inline: Ø 15 ÷ 40 mm |
| Certifications | **Referends Standard**: EN61326-1, EN61326-2-3<br>**Approvals**: CE |