



# 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.



| APPLICATIONS |
|--------------|
| Accounting   |



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| TECHNICAL FEATURES        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| GENERAL SPECIFICATIONS    | <b>Protection Range:</b> Inline: IP65<br><b>Operative Temperature:</b> -20 ÷ +80 °C<br><b>Storage Temperature:</b> -20 ÷ +60 °C<br><b>Relative Humidity:</b> MAX 99% not condensing                                                                                                                                                                                                                                                                                                                                                                                                |
| POWER SUPPLY              | <b>Supply Voltage:</b> 18 ÷ 30 VAC / VDC<br><b>Consumption:</b> Max 200 mA<br><b>Connectors types:</b> Cable gland M16x1.5 (optional connector M12x1 8pol.)                                                                                                                                                                                                                                                                                                                                                                                                                        |
| RS485 INTERFACE           | <b>Supported Protocols:</b> ModBUS RTU<br><b>Communication Rate:</b><br><b>Isolation:</b><br><b>Connectors types:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| ANALOG INPUTS             | <b>Channels:</b><br><b>Analog Inputs:</b> 4 - 20 mA for pressure sensor<br><b>Precision:</b><br><b>Resolution:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| DIGITAL OUTPUTS           | <b>Channels:</b> Pulse of lenght 0.02 ÷ 2 sec<br><b>Voltage Output:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| ANALOG OUTPUTS            | <b>Output Type:</b> Voltage: 0 ÷ 10 V max. 1 mA; Current: 0 ÷ 20 mA and 4 ÷ 20 mA RL<500 Ohm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| RELE' OUTPUTS             | <b>Channels:</b><br><b>Voltage Output:</b> 44 VDC<br><b>Maximum Rated Current:</b> 500 mA<br><b>Isolation:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| COMPRESSED AIR FLOW METER | <b>Measurand:</b> Volumetric flow at standard conditions acc. DIN 1343; P0 = 1013.25 mbar (14.7 PSI); T0 = 0 °C (32 °F)<br><b>Measure Range:</b> Insertion: 0.2 ÷ 200 Nm³/s; Inline: varies according to DN, from 0.32 ÷ 63 Nm³/s (DN15) to 2.26 ÷ 452 Nm³/s (DN40)<br><b>Accuracy:</b> ± (1.5% of measuring value + 0.8% of full scale)<br><b>Temperature Coefficient:</b> ± (0.1% of measuring value / °C)<br><b>Pressure Coefficient:</b> +0.5% of measuring value / bar<br><b>Response Time:</b> < 1 s<br><b>Tube Diameter:</b> Insertion: Ø 50 ÷ 300 mm; Inline: Ø 15 ÷ 40 mm |
| CERTIFICATIONS            | <b>Referends Standard:</b> EN61326-1, EN61326-2-3<br><b>Approvals:</b> CE<br><b>Security:</b><br><b>Metrology:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |



No Information