



## 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

# KET-MPA-000

### Applications

Accounting

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