



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.

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 (1 1/2")	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 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 length 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

Relé 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 ³ /s; Inline: varies according to DN, from 0.32 ÷ 63 Nm ³ /s (DN15) to 2.26 ÷ 452 Nm ³ /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