MFM 4150/ 4180

Monitor your flow

Optimize process efficiency

The more accurate you can monitor gas flow, the more likely you will discover weak points in the process flow, thus ensuring continuity and profitability.
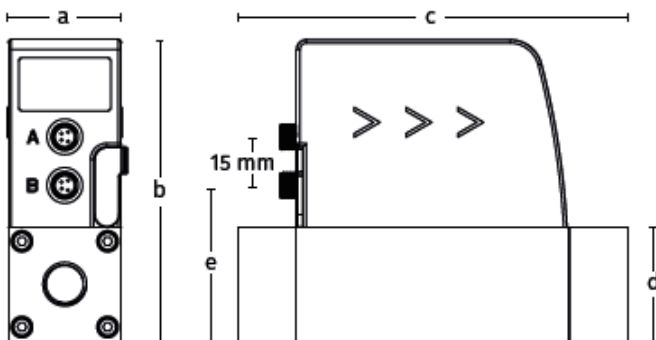
Mode of operation

Asymmetric velocity profiles, swirl, and other factors caused by bends in pipes can lead quickly to inaccurate readings. And it is often not possible to place flow meters at hard-toreach places.

The solution is our new generation of compact, easy-toinstall, reliable and cost-effective flow and consumption meters: the MFM 4150 and the MFM 4180.

Benefits

- Convenient installation, great flexibility, can be installed anywhere
- Available as DN8, DN15, DN20 and DN25 (G female thread)
- Eco version MFM 4150: Accuracy of 3% o.RDG, measuring volume 50: 1

- Pro version MFM 4180: Accuracy of 1.5% o.RDG, measuring volume 100: 1
- Pro version MFM 4180: Integrated data logger and pressure gauge option

Dimension Drawing

Dimensions in mm	a	b	c	d	e
DN8 / DN15	35.0	93.0	120.4	35.0	48.0
DN20 / DN25	48.0	106.0	178.0	48.0	61.0

Measuring Ranges

Stated measuring ranges under following conditions:

- Standard flow in air
- Reference pressure: 1000 hPa
- Reference Temperature: +20°C

Thread / Measuring Range	Standard Configuration			
Process connection	DN8	DN15	DN20	DN25
Standard range (S) in l/min	250	1000	2000	3500
Low range (L) in l/min	50	200	400	700

We control GASES - since 1978

HTK
HAMBURG

MFM 4150/ 4180

Analysers from HTK

We are your partner for tailor-made gas analysis technology

The use of fixed and mobile gas analysers is widespread in many industries, and the demand continues to grow.

HTK Hamburg develops and builds equipment to provide effective solutions, from the small manual analyser up to the complex analysis unit in the food sector, welding & cutting and in many other industries.

Planning, manufacturing, service and calibrating analysers for the measuring gases such as O_2, CO_2, H_2, SF_6 - and many more - isn't a challenge for us; it's our mission each and every day.

Our aim is to ensure safe, consistent and accurate analysis in your process - thus maintaining quality.

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Technical Data

Technical Data	
Inner thread	DN8, DN15, DN20, DN25
Process connection	G inner thread (ISO 228-1)
Pressure range	0 ... 1.0 MPa
Ambient / Transport temperature	0 ... +50°C / -30 ... +70°C
Medium conditions	0 ... +50°C / rH < 90% no condensation
Power supply	18 ... 30 VDC / 120 mA
Output signal	Analogue 4 ... 20 mA, pulse RS-485 (Modbus/RTU) Digital M-Bus
LED display	4-Digit / MFM 4150: Flow / MFM 4180: Flow + Pressure (option)
Material	Process connection: aluminium alloy Wetted parts: aluminium alloy Top casing: PC + ABS
Classification	IP54
Electrical connection	2 x M8, 4 poles
Approvals	CE, RoHS

Configuration	MFM 4150 (Eco)	MFM 4180 (Pro)
Turndown ratio	50:1	100:1
Accuracy (bei 6 bar, 20°C, rH < 40%)	3% of reading	1.5% of reading
Measured gas	Air, N2	Non-corrosive gases, up to 2 calibrated gases
Response time (T90)	1 Sec	0.1 Sec
Interface	Wireless	Wireless USB for logger readout (MFM 4180)
Data logger	None	Memory size: 8,000,000 samples Channels: up to 4 channels (Flow, Consumption, Temperature, Pressure) Sampling rate: 1 sec ... 1 h
Pressure sensor option	None	Range: 0 ... 1.0 MPa Accuracy: 1% F.S.

Calibrated Gas Types	MFM 4150 (Eco)	MFM 4180 (Pro)
The MFM 4150 can be calibrated for Air or N2	Luft	Luft
	N2	CO2
		O2 (oil & grease free)
The MFM 4180 can be calibrated for up to two gases. Standard is Air.		N2
		N2O
		Ar
		Natural gas
		H2 (real gas calibration)
		He (real gas calibration)
		C3H8
		Other Gases on demand

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