MFM 4300

Measures air delivery at compressor discharge

Ideal flow meter for compressor performance tests

The MFM 4300 is based on the pitot tube principle to measure flow. Properly installed (refer to instruction manual for details) the sensor can measure in wet and dirty gases as occurring, for example, at the discharge of a compressor.

Benefits

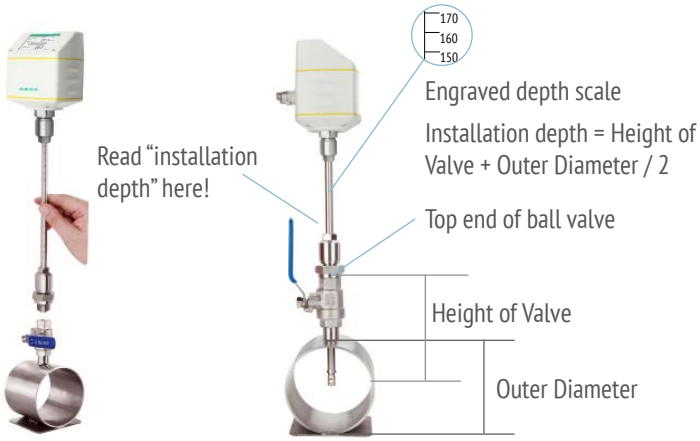
- Flow and consumption measurement in wet air or high mass flow / velocity applications
- Measurement at compressor outlet
- Tube diameters of 1.25" to 10" through center installation, bigger diameters through non-center installation
- Insertion type, easy installation under pressure through ball valve possible
- High temperature applications up to 230°C
- No mechanical wear parts
- All parts which are in contact with flow medium are made of stainless steel
- Compressor-FAD-Measurement
- Measures Flow, Consumption, Temperature and Pressure

Mode of Operation

The sensor features long term stability, wide turndown ratio and good temperature stability. It can be used in compressed air and non-corrosive gases.

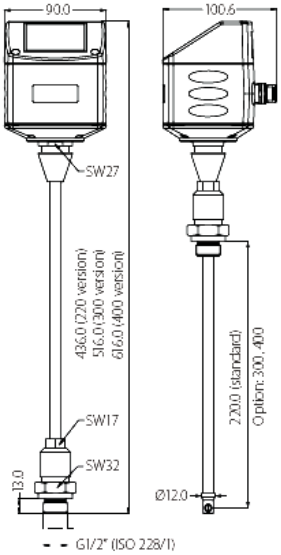
The sensor can be installed through a ball valve while the system is pressurized. Various output signals allow the sensor to be connected to our displays and/or third-party displays and PLCs.

Installation and Sensor Removal



MFM 4300 installation through a ball valve.

Dimension Drawing



MFM 4300

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 O2, CO2, H2, SF6 - 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.

Technical Data	
Pressure range	0 ... 1.6 MPa
Temperature range	-40 ... +230°C
Accuracy	Flow: ± 1.5%, 0.3% full scale Pressure: 0.5% F.S. Temperature: 0.5°C
Reference conditions	Programmable, default P = 1000 hPa(a), T = 20°C
Medium	Wet and dry air, non-corrosive gases
Output signals	4 ... 20 mA and Pulse (optional) Modbus/RTU (optional) M-Bus (optional) Modbus/TCP (optional)
Medium temp.	-40 ... +230°C
Ambient temp.	-20 ... +60°C
Power supply	24 VDC, 150 mA
Display option	2.4" color graphic display with keypad
Process connection	3/4" G type (ISO 228-1)
Sensor material	Stainless steel 1.4404 (SUS 316L)

Flow ranges

Tube		Volumetric Flow					
Inch	mm	m³/h		m³/min		cfm	
		Min	Max	Min	Max	Min	Max
1	27.3	23	229	0.38	3.8	13	135
1¼"	36.0	51	507	0.85	8.5	30	298
1½"	41.9	76	756	1.26	12.6	45	445
2"	53.1	130	1298	2.16	21.6	76	764
2½"	68.9	227	2274	3.79	37.9	134	1338
3"	80.9	318	3175	5.29	52.9	187	1869
4"	100.0	488	4880	8.13	81.3	287	2872
5"	125.0	763	7625	12.71	127.1	449	4488
6"	150.0	1099	10993	18.32	183.2	647	6470
8"	200.0	1961	19611	32.69	326.9	1154	11543
10"	250.0	3064	30642	51.07	510.7	1804	18035
12"	300.0	4412	44125	73.54	735.4	2597	25971

Flow range for Air at 6 barg, 50 °C and 90 % humidity. For other gas and condition please contact us.

Stated measuring ranges under following conditions:
- Standard flow in air
- Reference pressure: 1000 hPa
- Reference Temperature: +20°C

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