

DATASHEET

Volumetric flow meter **airflow compact**



Compact inline flow sensor for air and nitrogen

The newly developed airflow compact flow sensor combines modern digital interfaces for connection to energy monitoring systems with a small, compact design. The airflow compact is always used when many machines (compressed air consumers) are to be integrated into an energy monitoring network.

Display values in the display can be rotated by 180°, e.g. for overhead installation

Display shows 2 values simultaneously:

- Current consumption in m³/h, l/min,...
- Total consumption (meter reading) in m³, l, kg
- Temperature measurement

Screw-in thread:

Easy installation in the existing pipe due to integrated measuring block (suitable for 1/4", 1/2", 3/4", 1", 1 1/4", 1 1/2" or 2" pipes)

The **advantages** at a glance:

- Compact, small design - for use in machines, behind the maintenance unit at the end user
- Optionally with classic analog signals (4...20 mA and pulse) or digital interfaces such as Modbus-RTU, Ethernet (also PoE), M-Bus
- All interfaces can be freely parameterized via the display



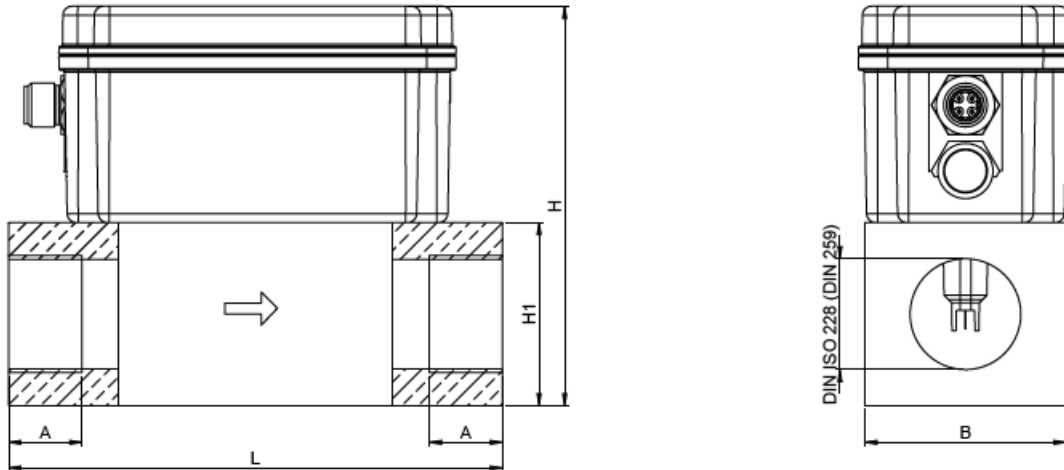
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Technical data:

Measured variables:	m ³ /h, l/min (1000 mbar, 20°C) for compressed air or Nm ³ /h, NI/min (1013 mbar, 0°C) for gases
Units:	m ³ /h, m ³ /min, l/min, l/s, ft/min, cfm, m/s, kg/h, kg/min, g/s, lb/min, lb/h
Sensor:	Thermal mass flow sensor
Measuring medium:	Air
Accuracy:	± 1.5 % f.s. ± 0.3 % f.s.
Operating temperature:	-20 ... 60 °C
Operating pressure:	up to 16 bar
Digital output:	RS 485 interface, (Modbus-RTU), M-Bus (optional) Ethernet interface or PoE
Analog output:	4 ... 20 mA for m ³ /h or l/min
Pulse output:	1 pulse per m ³ or per liter galvanically isolated. Pulse value adjustable on the display. Alternatively, the pulse output can be used as an alarm relay
Power supply:	18 ... 36 VDC, 5W
Load:	< 500 Ω
Housing:	Polycarbonate (IP 65)
Measuring block:	Aluminum
Connection thread:	G ¼" to G 2" (BSP British Standard Piping) or ½" to 2" NPT thread (optional)
Mounting position:	any

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Dimensions:



Measuring ranges flow rate airflow compact (ISO 1217: 1000 mbar, 20°C)									
airflow compact	Measuring section	Thread	Measuring range end values		L	B	H1	H	A
			m ³ /h	cfm					
014	DN 8	G 1/4"	105 l/min	3,6	135	55	50	109,1	15
012	DN 15	G 1/2"	90 m ³ /h	50	135	55	50	109,1	20
034	DN 20	G 3/4"	170 m ³ /h	100	135	55	50	109,1	20
100	DN 25	G 1"	290 m ³ /h	170	135	55	50	109,1	25
114	DN 32	G 1 1/4"	530 m ³ /h	310	135	80	80	139,1	25
112	DN 40	G 1 1/2"	730 m ³ /h	430	135	80	80	139,1	25
200	DN 50	G 2"	1195 m ³ /h	700	135	80	80	139,1	30