



Compressed air consumption and leakage monitoring.



Compressed air meter with display and totalizer function.

- Now also with different accuracy grades.
- For compressed air in industrial use, argon, carbon dioxide, nitrogen.
- Large measuring range up to 700 Nm³/h. Larger measuring ranges on request.
- Fast response time and high response sensitivity.
- With flow rate, totalising and temperature indication.

High-grade stainless steel

Outputs: analogue binary pulse

IP 65

Broad measurement dynamics

Calorimetric measuring principle

The compressed air meter detects the standard volume flow directly (according to ISO 2533). This makes corrections, in case of temperature or pressure fluctuations, unnecessary. The high measurement dynamics of the system enable the reliable detection of even minute quantities, e.g. leakage. High accuracy and repeatability are ensured by the integration of the measurement sensor's key elements into a defined pipe length.

Measuring compressed air consumption in air supply lines

We offer additional compressed air sensors for larger measuring ranges on request, especially for supply and air supply lines.

As an option compressed air sensors with exchangeable electronics, allowing subsequent calibration under operating pressure, can also be used.



Argon consumption measurement in a laser welding system.

fluid sensors and diagnostic systems

position sensors and object recognition

bus, identification and control systems

Measuring range [Nm ³ /h]	Pulse value [m ³]	Measuring accuracy [% of the final value]	Process connection	Order no.
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Application: compressed air in industrial use, air quality DIN 8573-1, class 141 (measurement error: value A) / class 344 (measurement error: value B)




0.06...15	0.001...1 000 000	A): ± (3 % MV + 0.3 % VMR) / B): ± (6 % MV + 0.6 % VMR)	G 1/4	SD5000
0.25...75	0.001...1 000 000	A): ± (3 % MV + 0.3 % VMR) / B): ± (6 % MV + 0.6 % VMR)	R 1/2	SD6000
0.25...75	0.001...1 000 000	± (15 % MV + 1.5 % VMR)	G 1/2	SD6050
0.75...225	0.003...3 000 000	A): ± (3 % MV + 0.3 % VMR) / B): ± (6 % MV + 0.6 % VMR)	R 1	SD8000
1.3...410	0.005...4 000 000	A): ± (3 % MV + 0.3 % VMR) / B): ± (6 % MV + 0.6 % VMR)	R 1 1/2	SD9000
2.3...700	0.010...4 000 000	A): ± (3 % MV + 0.3 % VMR) / B): ± (6 % MV + 0.6 % VMR)	R 2	SD2000

Larger measuring ranges on request.

Application: argon (Ar), carbon dioxide (CO₂), nitrogen (N₂)

Ar: 0.08...24.54 CO ₂ : 0.047...14.38 N ₂ : 0.05...14.94	0.001...1 000 000	(6% MV + 0.6% VMR)	G 1/4	SD5100
Ar: 0.39...118.2 CO ₂ : 0.24...71.7 N ₂ : 0.24...73.0	0.001...1 000 000	(6% MV + 0.6% VMR)	R 1/2	SD6100

Connectors and splitter boxes

Type	Description	Order no.
	Socket, M12, 2 m black, PUR cable	EVC004
	Socket, M12, 5 m black, PUR cable	EVC005
	Socket, M12, 10 m black, PUR cable	EVC006

Common technical data

		Type SD
Operating voltage	[V]	19...30 DC
Current rating	[mA]	2 x 250
Analogue output	[mA]	4...20
Short-circuit protection, pulsed		•
Reverse polarity / overload protection		• / •
Medium temperature	[°C]	0...60
Ambient temperature	[°C]	0...60
Response time	[s]	< 0.1 (dAP = 0)
Pressure resistance	[bar]	16
Protection		IP65, III
Connection		M12 connector
Housing materials		PBT-GF 20; PC (APEC), Makrolon; stainless steel (304/1.4301); Viton
Materials (wetted parts)		high-grade stainless steel 316L/1.4404; ceramics; glass passivated; PEEK (polyetheretherketone); polyester; Viton; aluminium; anodized