



efector
metris

Flow rate measurement for low flow of gases.

Fluid sensors and diagnostic systems



Thermal measuring principle for air or N₂, CO₂ and argon.

- High accuracy and repeatability in the measuring range.
- Integrated totaliser for measuring the total consumption.
- 4-digit 10-segment display: clearly legible at large distances.
- Freely selectable output functions: binary, analogue and pulse.
- Short response time and great measurement dynamics.

Totalizer function

Stainless steel

Analogue output

IP 65

The success story continues

Following the successful market launch of the efector *metris* series there are now two further versions. One of the versions is used for pure measurement of the compressed air consumption and the other reliably detects gases such as argon, carbon dioxide or nitrogen.

Measuring small quantities

Both units serve for the measurement and detection of small consumed quantities up to 24.54 Nm³/h. So, smallest quantities can be precisely dosed, controlled and monitored.

Monitoring and documentation

Due to the integrated totaliser these units enable long-term detection and documentation of consumed total quantities.

The measured data is output via the analogue or pulse output.



Monitoring very small gas quantities, for example during production.

fluid sensors
and diagnostic
systems

position
sensors
and object
recognition

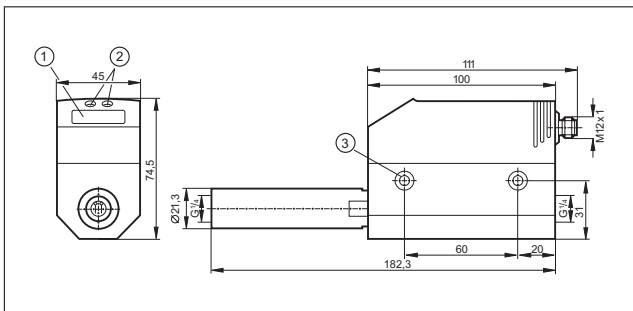
bus,
identification
and control systems



Measuring range [Nm ³ /h]	Setting range [Nm ³ /h]	Pressure resistance [bar]	Medium temperature [°C]	Process connection	Pipe connection	Order no.
M12 connector · application: compressed air in industrial use, air quality DIN 8573-1						
0.06...15.00	0.00...15.00	16	0...60	G 1/4	DN8	SD5000
M12 connector · application: argon (Ar), carbon dioxide (CO₂), nitrogen (N₂)						
0.047...24.54*	0.00...24.54*	16	0...60	G 1/4	DN8	SD5100

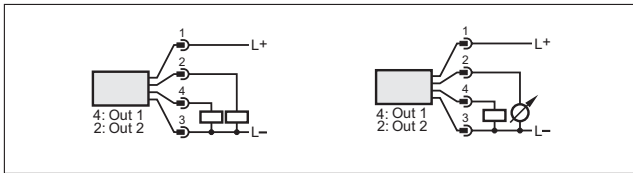
* depending on the medium

Dimensions



- 1) 4-digit alphanumeric display
- 2) programming buttons
- 3) bore hole for M5 fixing screw

Wiring



Common technical data

Type SD5000, SD5100		
Operating voltage	[V]	19...30 DC
Current rating	[mA]	2 x 250
Current consumption	[mA]	< 100
Analogue output	[mA]	4...20 (max. 500 Ohm)
Output function	OUT 1	NO/NC programmable or pulse
	OUT 2	NO/NC programmable or analogue (4...20 mA scaleable)
Short circuit / reverse polarity protection		• / •
Protection		IP 65, III
Operating temperature	[°C]	0...60
Max. permissible relative air humidity	[%]	90
Display		4-digit, alphanumeric, 7 x LED
Sensor material		stainless steel (304S15), ceramics, PEEK, polyester, Viton, aluminium

Connectors and splitter boxes

Type	Description	Order no.
	Socket, M12, 2 m black, PUR cable	EVC001
	Socket, M12, 5 m black, PUR cable	EVC002
	Socket, M12, 10 m black, PUR cable	EVC003