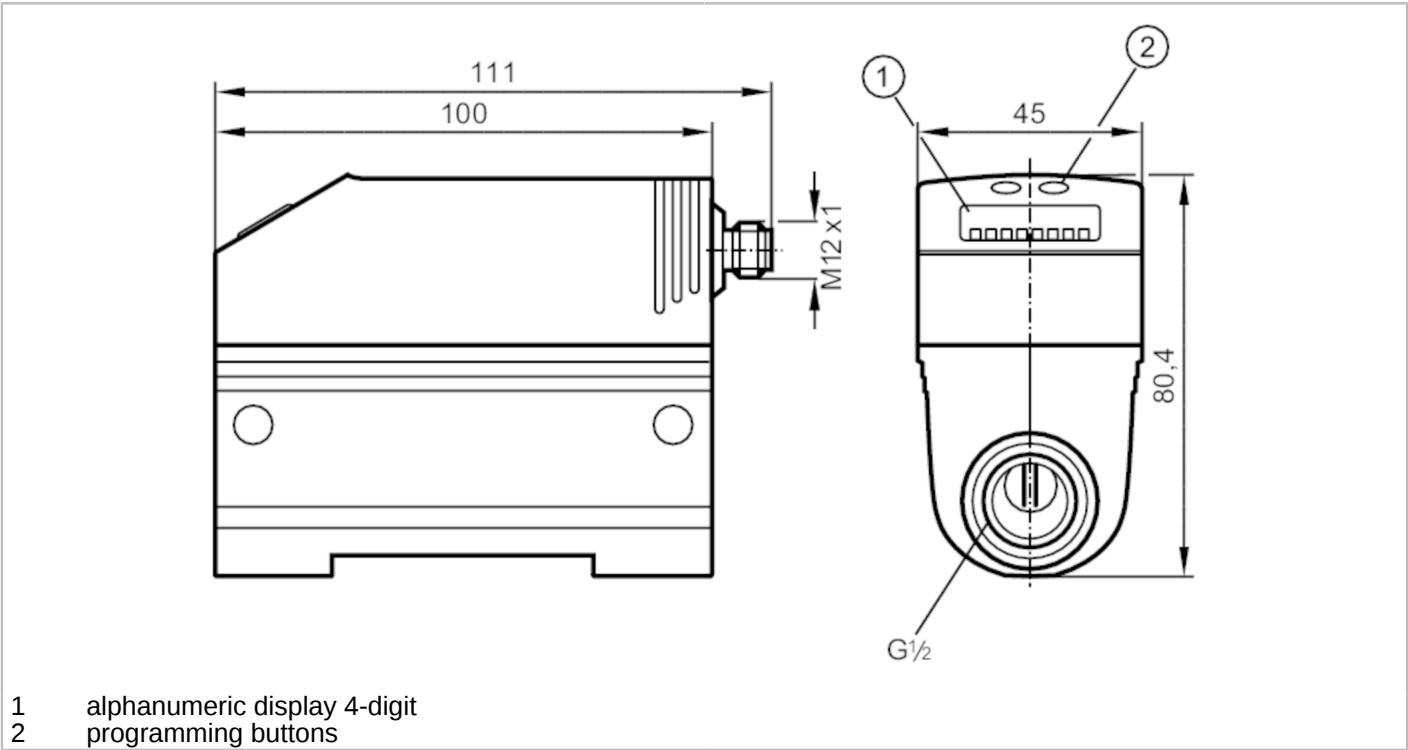


SD6050



Compressed air meter

SDR12DGXFPKG/US-100



Application	
Application	for industrial applications
Media	compressed air
Medium temperature [°C]	0...60
Pressure rating [bar]	16
Electrical data	
Operating voltage [V]	18...30 DC; (according to EN 50178 SELV/PELV)
Current consumption [mA]	< 110
Protection class	III
Reverse polarity protection	yes
Power-on delay time [s]	1
Inputs / outputs	
Number of inputs and outputs	Number of digital outputs: 2; Number of analogue outputs: 1



Compressed air meter

SDR12DGXFPKG/US-100

Outputs			
Total number of outputs	2		
Output signal	switching signal; analogue signal; pulse signal; IO-Link; (configurable)		
Electrical design	PNP		
Number of digital outputs	2		
Output function	normally open / normally closed; (parameterisable)		
Max. voltage drop switching output DC [V]	2		
Permanent current rating of switching output DC [mA]	250; (per output)		
Number of analogue outputs	1		
Analogue current output [mA]	4...20; (scalable)		
Max. load [Ω]	500		
Pulse output	consumed quantity meter		
Short-circuit protection	yes		
Type of short-circuit protection	pulsed		
Overload protection	yes		
Measuring/setting range			
Measuring range	0.2...75 m³/h	10...1250 l/min	0.3...103.6 m/s
Display range	0...90 m³/h	0...1500 l/min	0...124.3 m/s
Set point SP	0.6...75 m³/h	10...1250 l/min	0.8...103.6 m/s
Reset point rP	0.2...74.6 m³/h	4...1244 l/min	0.3...103.1 m/s
Analogue start point ASP	0...56.3 m³/h	0...938 l/min	0...77.7 m/s
Analogue end point AEP	18.7...75 m³/h	312...1250 l/min	25.9...103.6 m/s
In steps of	0.1 m³/h	1 l/min	0.1 m/s
volumetric flow quantity monitoring			
Pulse value	0.001...1000000 m³		
In steps of	0.001 m³		
Pulse length [s]	≥ 0,02 / ≤ 2		
Temperature monitoring			
Measuring range [°C]	0...60		
Display range [°C]	-12...72		
Accuracy / deviations			
Flow monitoring			
Repeatability [% of the measured value]	± 1,5		
Accuracy (in the measuring range)	± (15 % MW + 1,5 % MEW); (maximum value to be achieved for air quality class 344 (DIN 8573-1); when using pipes of tolerance class T3/T4; inlet and outlet pipe lengths without edges and abrupt diameter changes; inner surface of the pipe free of burrs)		
Temperature monitoring			
Accuracy [K]	± 2; (medium flow in the limit area of the flow measurement range)		



Compressed air meter

SDR12DGXFPKG/US-100

Response times		
Flow monitoring		
Response time	[s]	0.1; (dAP = 0)
Damping for the switching output dAP in steps	[s]	0 - 0,2 - 0,4 - 0,6 - 0,8 - 1
Software / programming		
Parameter setting options	Flow monitoring; quantity meter; Preset counter; Temperature monitoring; hysteresis / window; normally open / normally closed; current/pulse output; display can be rotated and switched off; Display unit; totaliser	
Interfaces		
Communication interface	IO-Link	
Transmission type	COM2 (38,4 kBaud)	
IO-Link revision	1.1	
SDCI standard	IEC 61131-9 CDV	
IO-Link device ID	262 d / 00 01 06 h	
Profiles	no profile	
SIO mode	yes	
Required master port type	A	
Process data analogue	3	
Process data binary	2	
Min. process cycle time	[ms]	4.1
Operating conditions		
Ambient temperature	[°C]	0...60
Storage temperature	[°C]	-20...85
Max. relative air humidity	[%]	90
Protection	IP 65	
Tests / approvals		
EMC	DIN EN 61000-6-2	
	DIN EN 61000-6-3	
Vibration resistance	DIN EN 68000-2-6	5 g (55...2000 Hz)
MTTF	[years]	227
Pressure Equipment Directive	Sound Engineering Practice; can be used for group 2 fluids; group 1 fluids on request	
Mechanical data		
Weight	[g]	580.6
Materials	PBT-GF20; NBR; PC; stainless steel (1.4301 / 304); PTFE; brass coated; FKM; aluminium powder-coated	
Materials (wetted parts)	stainless steel (1.4301 / 304); FKM; ceramics glass passivated; PEEK GF30; polyester; aluminium	
Tightening torque	[Nm]	50
Process connection	threaded connection G 1/2 DN15	

SD6050



Compressed air meter

SDR12DGXFPKG/US-100

Displays / operating elements

Display	Display unit	5 x LED, green (NI/min, Nm³/h, Nm/s, Nm³, °C)
	function display	1 x LED, green
	switching status	2 x LED, yellow
	measured values	alphanumeric display, 4-digit
	programming	alphanumeric display, 4-digit

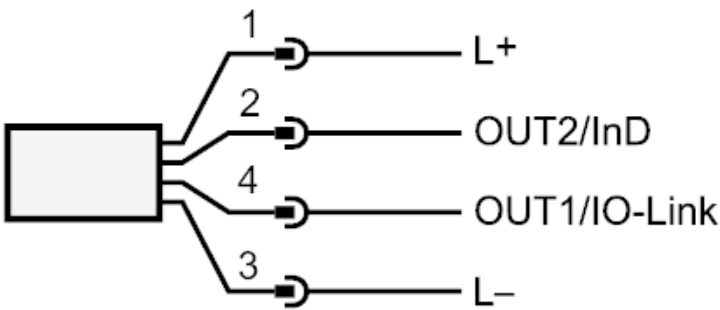
Remarks

Remarks	MW = measured value
	MEW = Final value of the measuring range
	Measuring, display and setting ranges refer to the standard volume flow according to DIN ISO 2533.
	For information about installation and operation please see the operating instructions.
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12

Connection



- OUT1/IO-Link:

switching output volumetric flow quantity monitoring
Pulse output quantity meter
signal output Preset counter
- OUT2/InD:

switching output volumetric flow quantity monitoring / Temperature monitoring
analogue output volumetric flow quantity monitoring / Temperature monitoring
input counter reset