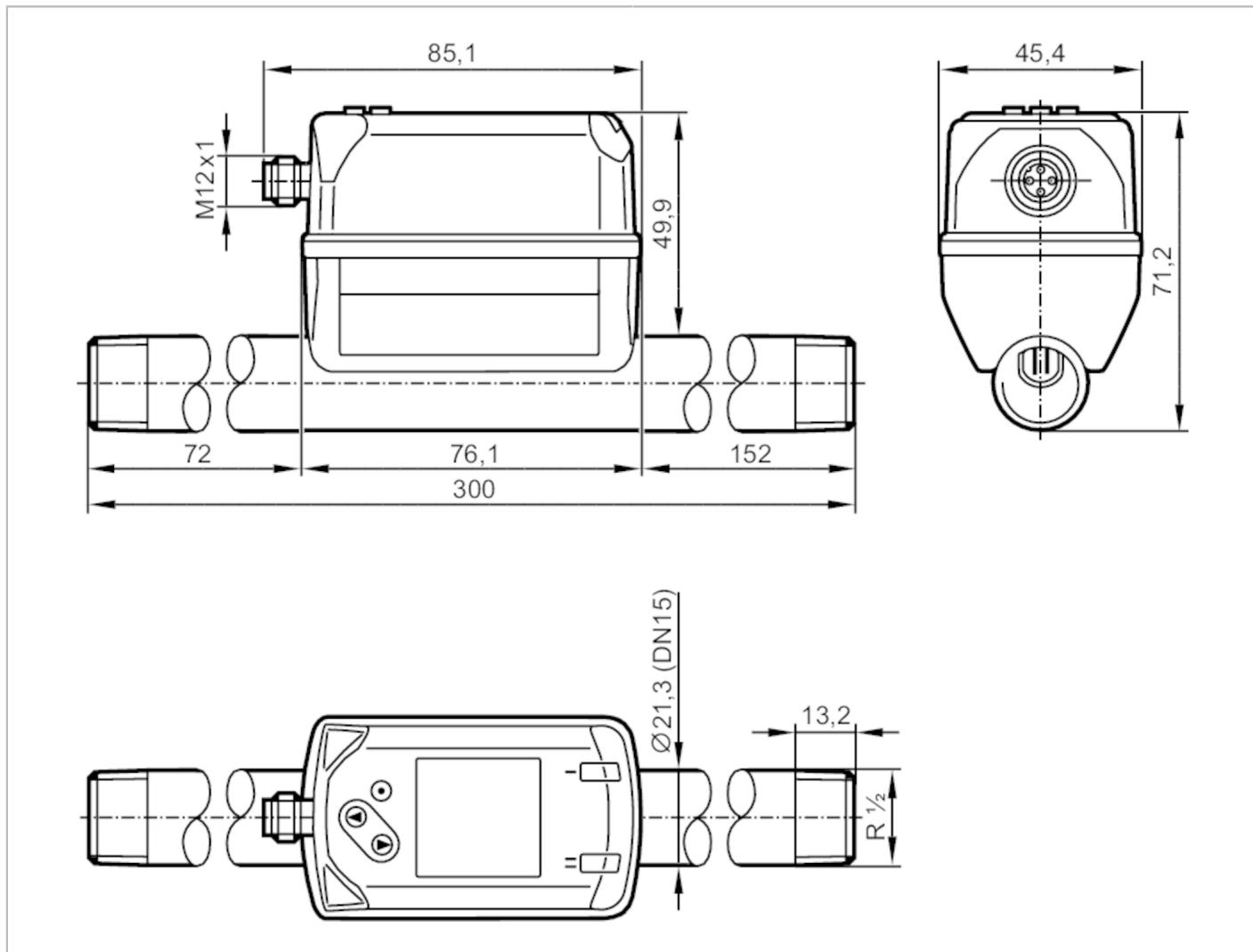


SD6600

Compressed air meter

SDR12DGXFRKG/US-100



Product characteristics

Number of inputs and outputs	Number of digital outputs: 2; Number of analogue outputs: 1		
Measuring range	4...1250 l/min	0.3...99.8 m/s	0.25...75 m³/h
Process connection	threaded connection R 1/2 DN15		

Application

Application	for industrial applications		
Media	Argon (Ar); carbon dioxide (CO2); nitrogen (N2); air		
Medium temperature	[°C]	-10...60	
Min. bursting pressure	[bar]	64	
Pressure rating	[bar]	16	

Electrical data

Operating voltage	[V]	18...30 DC; (according to EN 50178 SELV/PELV)
Current consumption	[mA]	< 80
Protection class		III
Reverse polarity protection		yes
Power-on delay time	[s]	1

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Inputs / outputs			
Inputs		Outputs	
Number of inputs and outputs		Number of digital outputs: 2; Number of analogue outputs: 1	
Inputs			
Inputs			counter reset
Outputs			
Output signal		switching signal; analogue signal; pulse signal; IO-Link; (configurable)	
Electrical design		PNP/NPN	
Number of digital outputs		2	
Output function		normally open / normally closed; (parameterisable)	
Max. voltage drop switching output DC	[V]	2.5	
Permanent current rating of switching output DC	[mA]	150; (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		4...1250 l/min	0.3...99.8 m/s
Display range		0...1500 l/min	0...90 m³/h
Resolution		1 l/min	0.1 m/s
Set point SP		11...1250 l/min	0.65...74.97 m³/h
Reset point rP		5...1243 l/min	0.28...74.6 m³/h
Analogue start point ASP		0...1000 l/min	0...60 m³/h
Analogue end point AEP		250...1250 l/min	15...75 m³/h
Low flow cut-off LFC		1...13 l/min	0.09...0.8 m³/h
In steps of		1 l/min	0.01 m³/h
Pressure monitoring			
Measuring range		[bar]	-1...16
Display range		[bar]	-1...20
Resolution		[bar]	0.05
Set point SP		[bar]	-0.92...16
Reset point rP		[bar]	-1...15.92
Analogue start point		[bar]	-1...12.8
Analogue end point		[bar]	2.2...16
In steps of		[bar]	0.01

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Volumetric flow quantity monitoring		
Measuring range	0...100000000 m ³	0...353146667.2 scf
Display range	0...100000000 m ³	0...353146667.2 scf
Set point SP	0.001...10000000 m ³	0.05...353146667.2 scf
Pulse value	0.001...10000000 m ³	0.05...353146667.2 scf
In steps of	0.0001 m ³	0.005 scf
Pulse length [s]		0.002...2
Temperature monitoring		
Measuring range	-10...60 °C	14...140 °F
Display range	-24...74 °C	-11.2...165.2 °F
Resolution	0.2 °C	0.5 °F
Set point SP	-9.7...60 °C	14.6...140 °F
Reset point rP	-10...59.7 °C	14.0...139.4 °F
Analogue start point	-10...46 °C	14...114.8 °F
Analogue end point	4...60 °C	39.2...140 °F
In steps of	0.1 °C	0.1 °F
Accuracy / deviations		
Temperature coefficient [1/K]		± 0,07 % MW
Accuracy (in the measuring range)		± (6 % MW + 0,6 % MEW); at medium temperature 23 °C
Repeatability		0,8 % MW + 0,2 % MEW
Pressure monitoring		
Repeatability [% of the final value]		± 0,2
Characteristics deviation [% of the final value]		< ± 0,5; (BFSL = Best Fit Straight Line)
Greatest TEMPCO of the span [% MEW / 10 K]		± 0,15
Greatest TEMPCO of the zero point [% MEW / 10 K]		± 0,25
Temperature monitoring		
Accuracy [K]		± 0,5; (medium flow in the limit area of the flow measurement range)
Response times		
Response time [s]		0.1; (dAP = 0)
Damping for the switching output dAP [s]		0...5
Pressure monitoring		
Response time [s]		0.05
Temperature monitoring		
Dynamic response T05 / T09 [s]		T09 = 0,5
Software / programming		
Parameter setting options	hysteresis / window; normally open / normally closed; current/pulse output; display can be rotated and switched off; Display unit; totaliser	

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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		864 d / 00 03 60 h
Profiles		Digital Measuring Sensor (0x800A), Identification and Diagnosis (0x4000)
SIO mode		yes
Required master port type		A
Process data analogue		8
Process data binary		2
Min. process cycle time	[ms]	7.2
Operating conditions		
Ambient temperature	[°C]	0...60
Storage temperature	[°C]	-20...85
Max. relative air humidity	[%]	90
Protection		IP 65; IP 67
Tests / approvals		
EMC		DIN EN 60947-5-9
Vibration resistance		DIN EN 68000-2-6
MTTF	[years]	183
UL approval		UL Approval no. I012 File number UL E174189
Pressure Equipment Directive		Sound engineering practice; can be used for stable gases fluid group 2
Mechanical data		
Weight	[g]	730
Materials		PBT+PC-GF30; PPS GF40; stainless steel (1.4301 / 304); stainless steel (1.4305 / 303); steel (1.5523) galvanised; 2.0401 (brass / CW614N); FKM
Materials (wetted parts)		stainless steel (1.4301 / 304); stainless steel (1.4305 / 303); FKM; ceramics glass passivated; PPS GF40; Al2O3 (ceramics); acrylate
Process connection		threaded connection R 1/2 DN15
Displays / operating elements		
Display		colour display 1,44", 128 x 128 pixels 2 x LED, yellow
Remarks		
Remarks		MW = measured value MEW = Final value of the measuring range Standard conditions: 1013.25 mbar / 15 °C / 0 % relative humidity For information about installation and operation please see the operating instructions.
Pack quantity		1 pcs.
Electrical connection		
Connector:	1 x M12	

SD6600

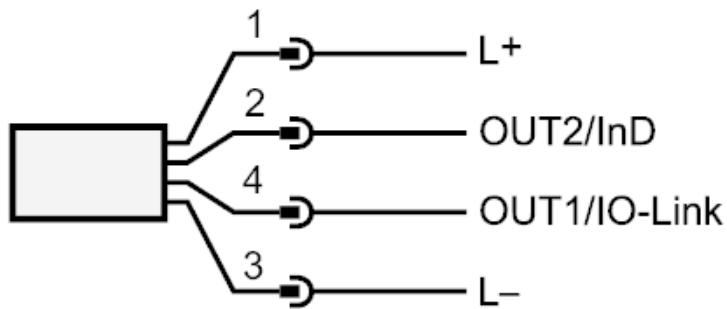


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Connection



- OUT1/IO-Link:
- switching output flow
 - switching output temperature
 - switching output pressure
 - Pulse output quantity meter
 - signal output Preset counter
- OUT2/InD:
- switching output flow
 - switching output temperature
 - switching output pressure
 - analogue output flow
 - analogue output temperature
 - analogue output pressure
 - signal output Preset counter
 - Pulse output quantity meter
 - input counter reset