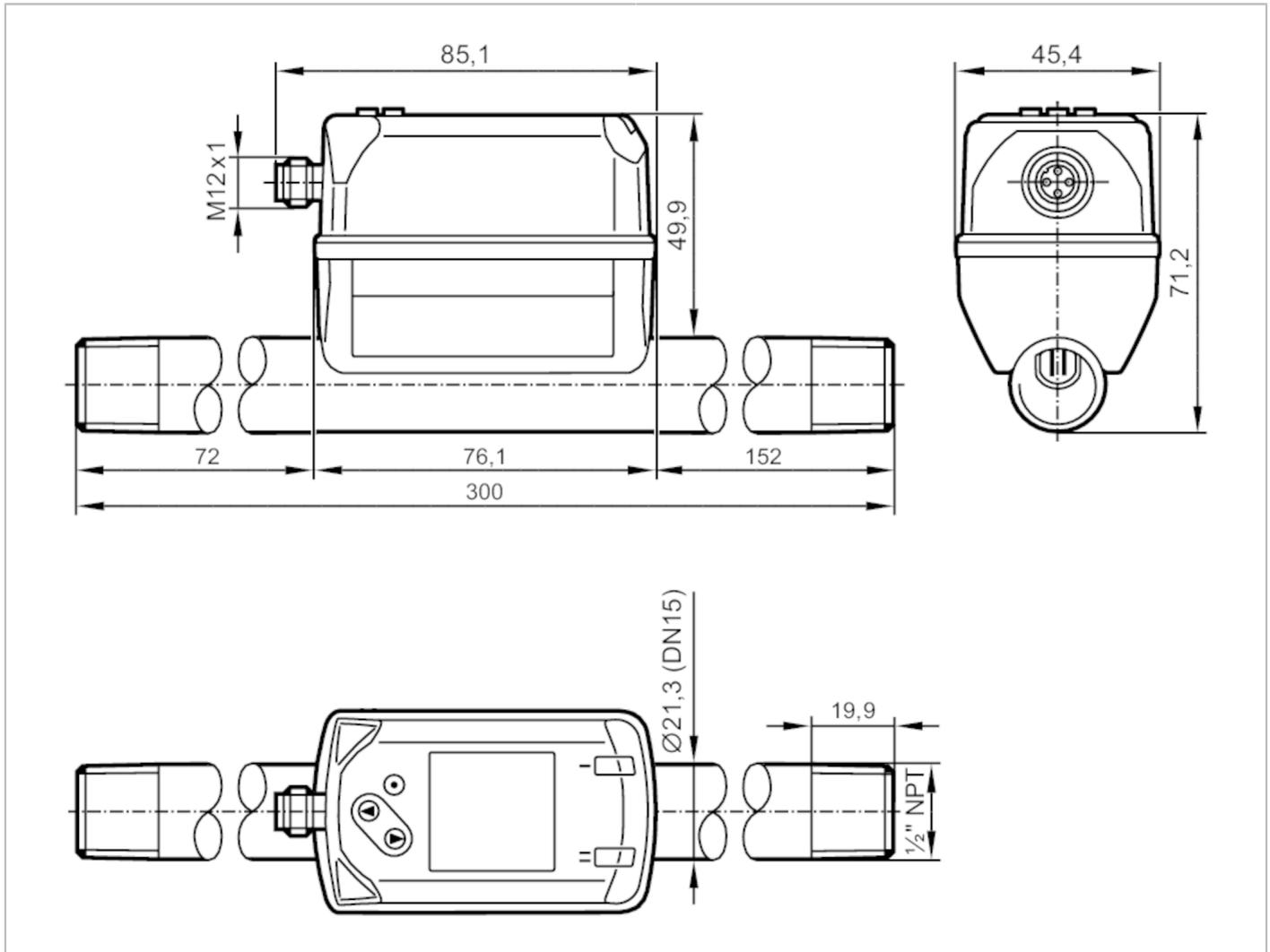


SD6601



Industrial gas counter

SDN12DGXFRKG/US-100



Product characteristics	
Number of inputs and outputs	Number of digital outputs: 2; Number of analog outputs: 1
Process connection	threaded connection 1/2" NPT DN15
Pressure monitoring	
Measuring range [psi]	-15...232
Application	
Application	for industrial applications
Media	Argon (Ar); carbon dioxide (CO ₂); nitrogen (N ₂); compressed air
Medium temperature [°F]	14...140
Min. bursting pressure [psi]	928
Pressure rating [psi]	232
MAWP (for applications according to CRN) [bar]	9.7

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Industrial gas counter

SDN12DGXFRKG/US-100

Electrical data				
Operating voltage	[V]	18...30 DC; (to SELV/PELV)		
Current consumption	[mA]	< 80		
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 analog outputs: 1		
Inputs				
Inputs		counter reset		
Outputs				
Output signal		switching signal; analog signal; pulse signal; IO-Link; (configurable)		
Electrical design		PNP/NPN		
Number of digital outputs		2		
Output function		normally open / closed; (configurable)		
Max. voltage drop switching output DC	[V]	2.5		
Permanent current rating of switching output DC	[mA]	150; (per output)		
Number of analog outputs		1		
Analog current output	[mA]	4...20; (scalable)		
Max. load	[Ω]	500		
Pulse output		consumed quantity meter		
Short-circuit protection		yes		
Type of short-circuit protection		yes (non-latching)		
Overload protection		yes		
Measuring/setting range				
Measuring range		8...2648 scfh	0.15...44.15 scfm	1...327.4 ft/s
Display range		0...3178 scfh	0...52.95 scfm	0...393 ft/s
Resolution		2 scfh	0.05 scfm	0.2 ft/s
Set point SP		23...2648 scfh	0.38...44.13 scfm	2.8...327.3 ft/s
Reset point rP		10...2635 scfh	0.16...43.91 scfm	1.2...325.7 ft/s
Analog start point ASP		0...2119 scfh	0...35.31 scfm	0...261.9 ft/s
Analog end point AEP		530...2649 scfh	8.83...44.14 scfm	65.5...327.4 ft/s
Low flow cut-off LFC		3...28 scfh	0.05...0.47 scfm	0.4...3.5 ft/s
In steps of		1 scfh	0.01 scfm	0.1 ft/s

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Industrial gas counter

SDN12DGXFRKG/US-100

Pressure monitoring		
Measuring range	[psi]	-15...232
Display range	[psi]	-15...290
Resolution	[psi]	1
Set point SP	[psi]	-13...232
Reset point rP	[psi]	-15...231
Analog start point	[psi]	-15...186
Analog end point	[psi]	32...232
In steps of	[psi]	1
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...139.4 °F
Analog start point		-10...46 °C 14...114.8 °F
Analog 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)
Repeatability		± (0,4 % MW + 0,1 % 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]	± 0,3
Greatest TEMPCO of the zero point	[% MEW / 10 K]	± 0,1
Temperature monitoring		
Accuracy	[K]	± 0,5; (medium flow in the limit area of the flow measurement range)
Reaction times		
Response time	[s]	0.1; (dAP = 0)
Damping process value dAP	[s]	0...5

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Industrial gas counter

SDN12DGXFRKG/US-100

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 / closed; current/pulse output; display can be rotated and switched off; Display unit; totalizer				
Interfaces					
Communication interface	IO-Link				
Transmission type	COM2 (38,4 kBaud)				
IO-Link revision	1.1				
SDCI standard	IEC 61131-9 CDV				
Profiles	Digital Measuring Sensor (0x800A), Identification and Diagnosis (0x4000)				
SIO mode	yes				
Required master port class	A				
Process data analog	8				
Process data binary	2				
Min. process cycle time [ms]	7.2				
Supported DeviceIDs	<table border="1"><thead><tr><th>Type of operation</th><th>DeviceID</th></tr></thead><tbody><tr><td>default</td><td>865</td></tr></tbody></table>	Type of operation	DeviceID	default	865
Type of operation	DeviceID				
default	865				
Operating conditions					
Ambient temperature [°F]	32...140				
Storage temperature [°F]	-4...185				
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	<table border="1"><thead><tr><th>UL approval number</th><th>I012</th></tr></thead><tbody><tr><td>File number UL</td><td>E174189</td></tr></tbody></table>	UL approval number	I012	File number UL	E174189
UL approval number	I012				
File number UL	E174189				
Pressure equipment directive	sound engineering practice; can be used for stable gases fluid group 2				
Mechanical data					
Weight [g]	742.5				
Material	PBT+PC-GF30; PPS GF40; stainless steel (1.4301 / 304); stainless steel (1.4305 / 303); steel (1.5523) galvanized; 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 1/2" NPT DN15				
Displays / operating elements					
Display	<table border="1"><thead><tr><th>Color display 1,44", 128 x 128 pixels</th></tr></thead><tbody><tr><td>2 x LED, yellow</td></tr></tbody></table>	Color display 1,44", 128 x 128 pixels	2 x LED, yellow		
Color display 1,44", 128 x 128 pixels					
2 x LED, yellow					

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Industrial gas counter

SDN12DGXFRKG/US-100

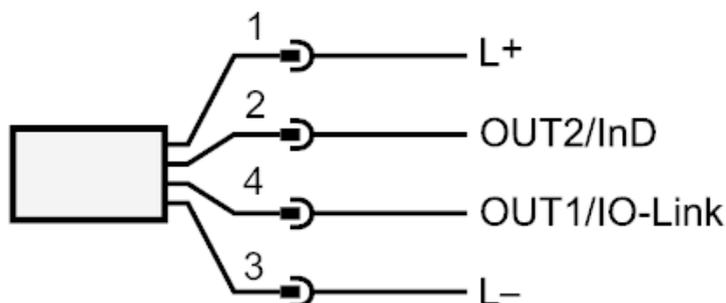
Remarks	
Remarks	MW = Measured value MEW = Final value of the measuring range Standard conditions: 1013.25 mbar / 15 °C / 0 % relative humidity For information about installation and operation please see the operating instructions.
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A



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
 - analog output flow
 - analog output temperature
 - analog output pressure
 - signal output Preset counter
 - Pulse output quantity meter
 - Input counter reset