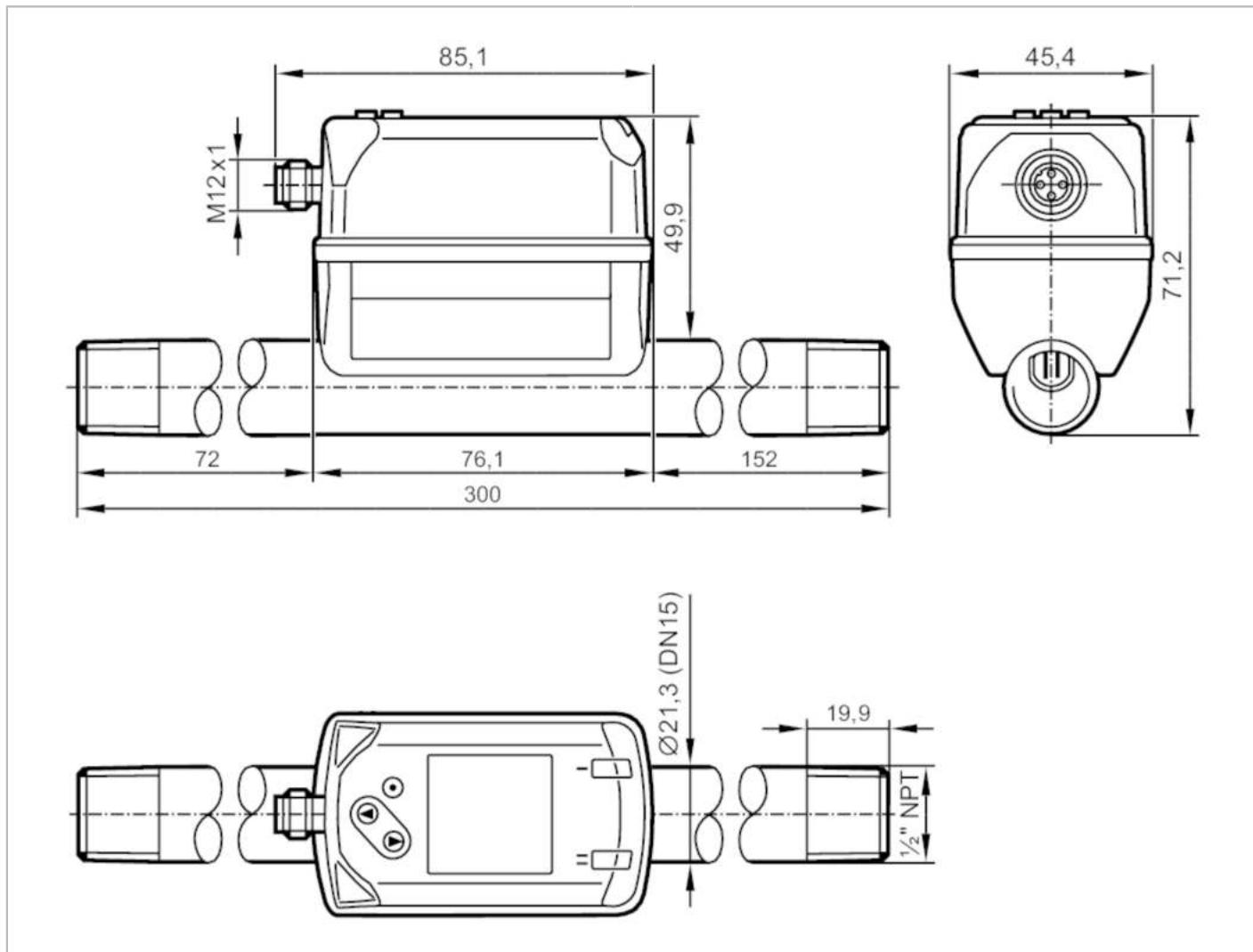


SD6601



Industrial gas counter

SDN12DGXFRKG/US-100



Product characteristics

Number of inputs and outputs	Number of digital outputs: 2; Number of analogue 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 (CO2); nitrogen (N2); 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

Electrical data

Operating voltage	[V]	18...30 DC; (to SELV/PELV)
Current consumption	[mA]	< 80

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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	
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	8...2648 scfh	0.15...44.15 scfm
Display range	0...3178 scfh	0...52.95 scfm
Resolution	2 scfh	0.05 scfm
Set point SP	23...2648 scfh	0.38...44.13 scfm
Reset point rP	10...2635 scfh	0.16...43.91 scfm
Analogue start point ASP	0...2119 scfh	0...35.31 scfm
Analogue end point AEP	530...2649 scfh	8.83...44.14 scfm
Low flow cut-off LFC	3...28 scfh	0.05...0.47 scfm
In steps of	1 scfh	0.01 scfm
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
Analogue start point	[psi]	-15...186
Analogue end point	[psi]	32...232
In steps of	[psi]	1
Volumetric flow quantity monitoring		
Measuring range	0...10000000 m³	0...353146667.2 scf

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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
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)
Repeatability			± (0,4 % MW + 0,1 % MEW)
Pressure monitoring			
Repeatability			± 0,2
Characteristics deviation			< ± 0,5; (BFSL = Best Fit Straight Line)
Greatest TEMPCO of the span			± 0,3
Greatest TEMPCO of the zero point			± 0,1
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 process value 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
Interfaces			
Communication interface			IO-Link
Transmission type			COM2 (38,4 kBaud)
IO-Link revision			1.1
SDCI standard			IEC 61131-9 CDV

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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	
Supported DeviceIDs	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	5 g (10...2000 Hz)
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]	742.5	
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 1/2" NPT 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; coding: A		
		

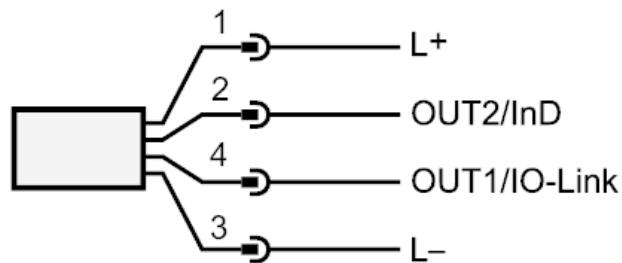
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Connection



- 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