

SD6001



Compressed air meter

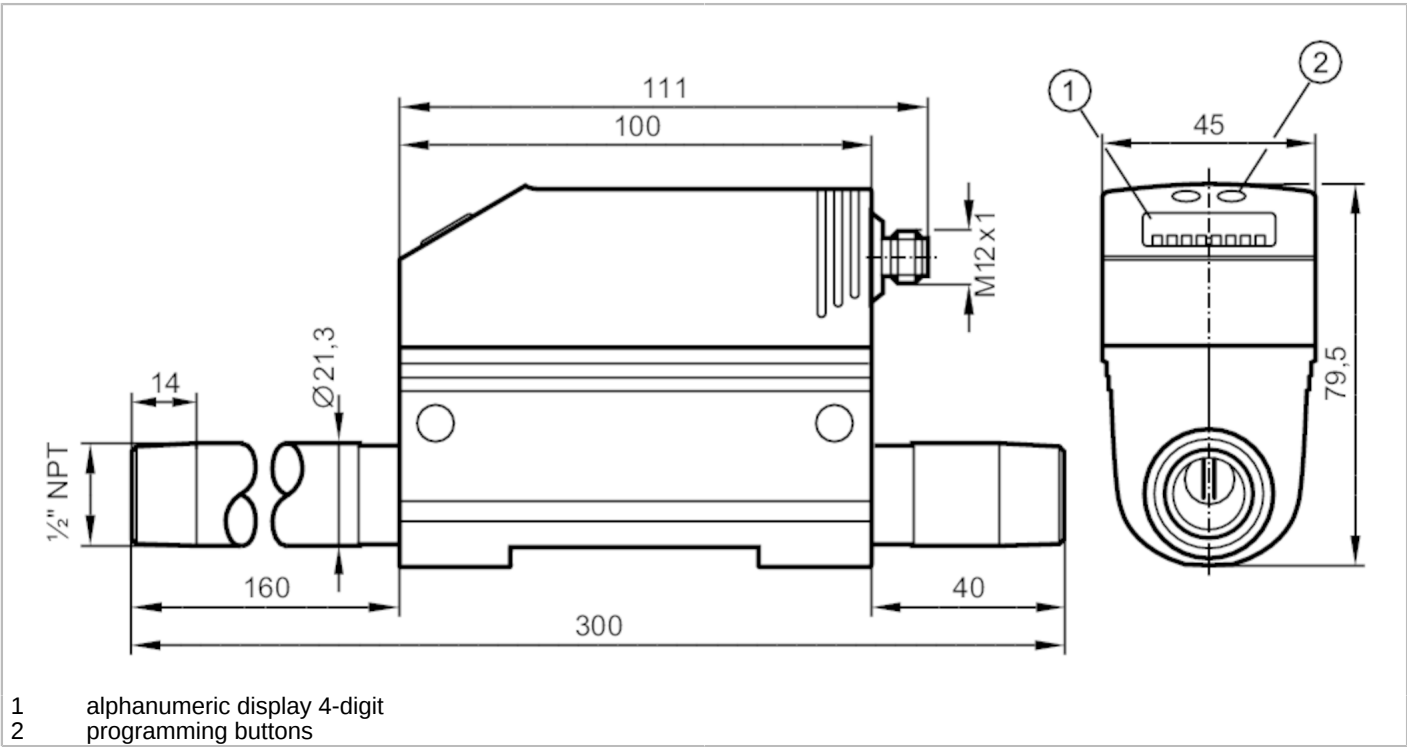
SDN12DGXFPKG/US-100

phase-out article

Discontinuation date: 12/31/2024

Alternative articles: SD6501

When selecting an alternative article and accessories please note that technical data may differ!



Product characteristics

Number of inputs and outputs	Number of digital outputs: 2; Number of analogue outputs: 1	
Measuring range	10...2650 scfh	0.2...44.1 scfm
Process connection	threaded connection 1/2" NPT DN15	

Application

Application	for industrial applications	
Media	compressed air	
Note on media	air quality ISO 8573-1	
	class 141	
	class 344	
Medium temperature	[°F]	32...140
Pressure rating	[bar]	16
Pressure rating	[psi]	232
MAWP (for applications according to CRN)	[bar]	16

Electrical data

Operating voltage	[V]	19...30 DC; (to SELV/PELV)
Current consumption	[mA]	< 100
Protection class		III



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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	
Outputs		
Total number of outputs	2	
Output signal	switching signal; analogue signal; pulse signal; (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	10...2650 scfh	0.2...44.1 scfm
Display range	0...3178 scfh	0...53 scfm
Set point SP	25...2650 scfh	0.4...44.1 scfm
Reset point rP	10...2635 scfh	0.2...43.9 scfm
Analogue start point ASP	0...1985 scfh	0...33.1 scfm
Analogue end point AEP	660...2650 scfh	11...44.1 scfm
In steps of	5 scfh	0.1 scfm
Volumetric flow quantity monitoring		
Pulse value	0.040...4 000 000 scf	
In steps of	0.020...1000 scf	
Pulse length [s]	0,045...2	
Temperature monitoring		
Measuring range [°F]	32...140	
Display range [°F]	32...140	
Accuracy / deviations		
Flow monitoring		
Repeatability [% of the measured value]	± 1,5	
Accuracy (in the measuring range)	± (3 % MW + 0,3 % MEW) / ± (6 % MW + 0,6 % MEW); (class 141 /; class 344; conditions: installation to DIN ISO 2533; installation in pipes: DN15)	

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Temperature monitoring		
Accuracy	[K]	± 2; (medium flow in the limit area of the flow measurement range)
Response times		
Flow monitoring		
Response time	[s]	0.1; (dAP = 0)
Damping process value 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; hysteresis / window; normally open / normally closed; current/pulse output; display can be rotated and switched off; Display unit	
Operating conditions		
Ambient temperature	[°F]	32...140
Storage temperature	[°F]	-4...185
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]	925
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	
Process connection	threaded connection 1/2" NPT DN15	
Displays / operating elements		
Display	Display unit	4 x LED, green (scfm, scfh, scf, °F)
	function display	1 x LED, yellow
	switching status	2 x LED, yellow
	measured values	alphanumeric display, 4-digit
	programming	alphanumeric display, 4-digit
Remarks		
Remarks	scf = standard cubic feet	
	scfh = standard cubic feet per hour	
	scfm = standard cubic feet per minute	
	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.	



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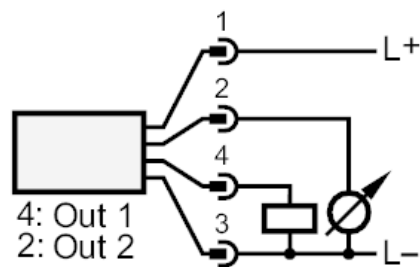
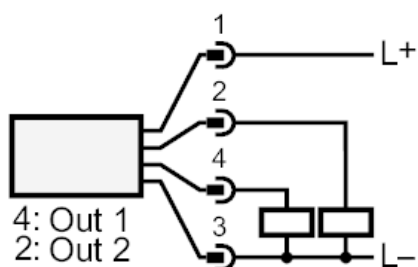
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Electrical connection

Connector: 1 x M12; coding: A



Connection



OUT1: switching output
Pulse output quantity meter
signal output Preset counter

OUT2: switching output
analogue output