

SD6001



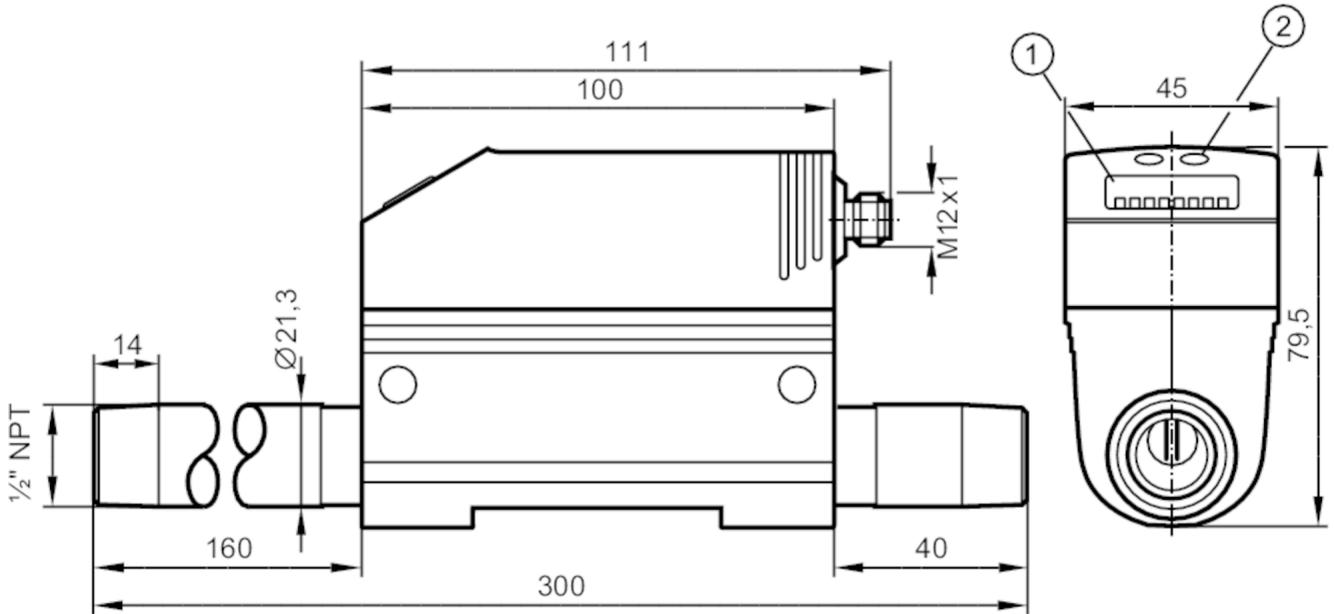
Compressed air meter

SDN12DGXFPKG/US-100

Discontinued article

Alternative articles: SD6501

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



- 1 alphanumeric display 4-digit
- 2 Programming buttons



Product characteristics

Number of inputs and outputs	Number of digital outputs: 2; Number of analog 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	
	air quality ISO 8573-1	
Note on media	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

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Electrical data			
Operating voltage	[V]	19...30 DC; (according to EN 50178 SELV/PELV)	
Current consumption	[mA]	< 100	
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	
Outputs			
Total number of outputs		2	
Output signal		switching signal; analog signal; pulse signal; (configurable)	
Electrical design		PNP	
Number of digital outputs		2	
Output function		normally open / closed; (configurable)	
Max. voltage drop switching output DC	[V]	2	
Permanent current rating of switching output DC	[mA]	250; (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		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
Analog start point ASP		0...1985 scfh	0...33.1 scfm
Analog 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		± 1,5	

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	[% of the measured value]	
Accuracy (in the measuring range)		$\pm (3 \% MW + 0,3 \% MEW) / \pm (6 \% MW + 0,6 \% MEW)$; (class 141 /; class 344; conditions: installation to DIN ISO 2533; installation in pipes: DN15)
Temperature monitoring		
Accuracy	[K]	± 2 ; (medium flow in the limit area of the flow measurement range)
Reaction 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; hysteresis / window; normally open / 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
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
Material		PBT-GF20; NBR; PC; stainless steel (1.4301 / 304); PTFE; brass coated; FKM; aluminum powder-coated
Materials (wetted parts)		stainless steel (1.4301 / 304); FKM; ceramics glass passivated; PEEK GF30; polyester; aluminum
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

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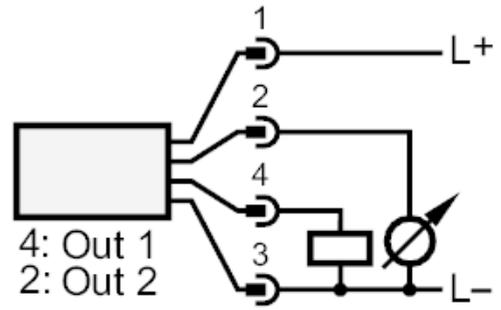
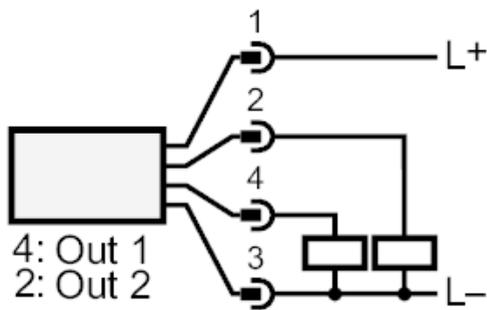
Remarks	
Remarks	scf = standard cubic feet
	scfh = standard cubic feet per hour
	scfm = standard cubic feet per minute
	MW = Measured value
	MEW = Final value of the measuring range
	Measuring, display and setting ranges refer to standard volume flow according to DIN ISO 2533.
For information about installation and operation please see the operating instructions.	
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12



Connection



- OUT1:
 - Switching output
 - Pulse output quantity meter
 - signal output Preset counter
- OUT2:
 - Switching output
 - analog output