

SDG080



Compressed air meter

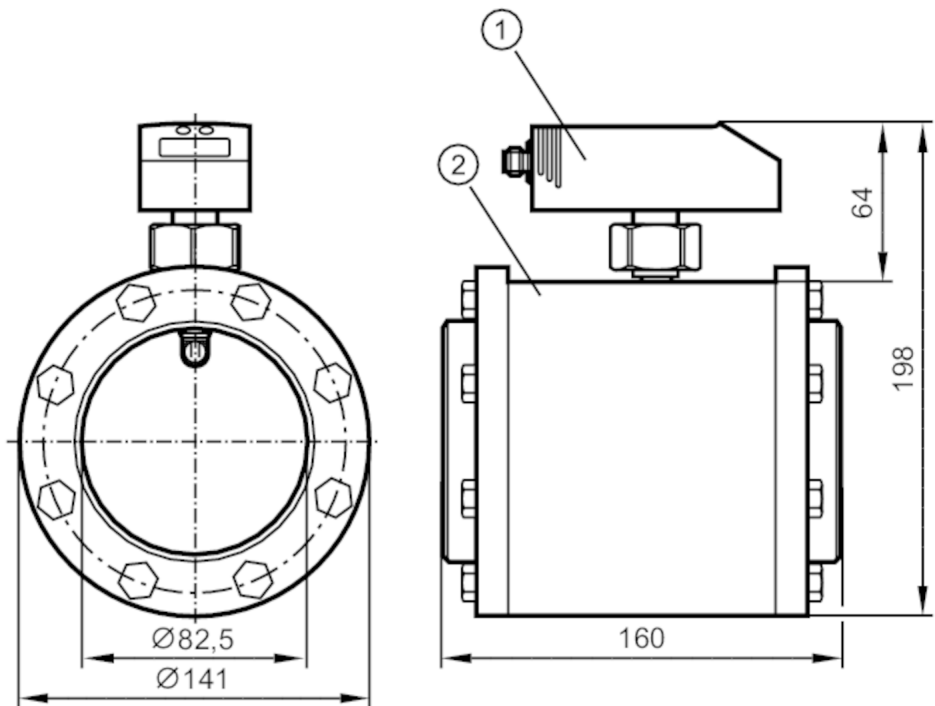
SDG3"/METRIS PB DN80

Article to be discontinued

Discontinuation date: 12/31/2024

Alternative articles: SDG450

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



- 1 Flow sensor
2 Pipe section



Product characteristics

Number of inputs and outputs	Number of digital outputs: 2; Number of analog outputs: 1	
Measuring range [m ³ /h]	9...2750	
Process connection	flange DN80 according to: DIN EN 10220	

Application

Application	Totalizer function	
Media	compressed air	
Note on media	air quality ISO 8573-1	
	class 141	
	class 344	
Medium temperature [°C]	0...60	
Pressure rating	16 bar	1.6 MPa

Electrical data

Operating voltage [V]	19...30 DC	
Current consumption [mA]	< 100	
Protection class	III	
Reverse polarity protection	yes	



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Power-on delay time	[s]	0.5
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	[m³/h]	9...2750
Display range	[m³/h]	0...3300
Volumetric flow quantity monitoring		
Pulse value		1 Nm³
Pulse length	[s]	0,1
Accuracy / deviations		
Flow monitoring		
Accuracy (in the measuring range)		± (3 % MW + 0,3 % MEW) / ± (6 % MW + 0,6 % MEW); (class 141 /; class 344)
Reaction times		
Flow monitoring		
Response time	[s]	0.1; (dAP = 0)
Operating conditions		
Ambient temperature	[°C]	0...60
Storage temperature	[°C]	-20...85
Max. relative air humidity	[%]	90
Protection		IP 65
Tests / approvals		
EMC	EN 61000-4-2 ESD	4 kV CD / 8 kV AD
	EN 61000-4-3 HF radiated	10 V/m
	EN 61000-4-4 Burst	2 kV
	EN 61000-4-6 HF conducted	10 V
Vibration resistance	DIN IEC 68-2-6	5 g (55...2000 Hz)

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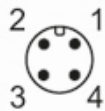
MTTF	[years]	214
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Mechanical data		
Weight	[g]	11625
Housing		rectangular
Dimensions	[mm]	160 x 141 x 198
Material		PBT-GF20; PC; PC; stainless steel (1.4301 / 304); FKM; Pipe section: steel galvanized
Materials (wetted parts)		stainless steel (1.4401 / 316); stainless steel (1.4301 / 304); ceramics glass passivated; PEEK; polyester; FKM; aluminum anodized; Pipe section: steel galvanized
Process connection		flange DN80 according to:DIN EN 10220

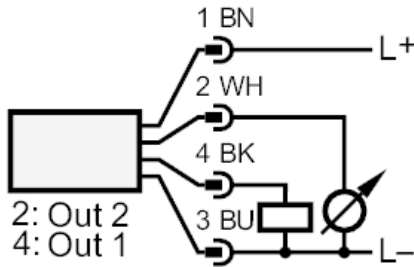
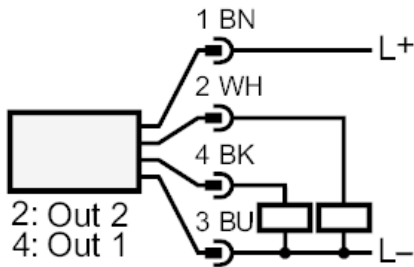
Remarks	
Remarks	MW = Measured value
	MEW = Final value of the measuring range
	Measuring, display and setting ranges refer to standard volume flow according to DIN ISO 2533.
	For information about installation and operation please see the operating instructions.
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A



Connection



OUT1:	Switching output Pulse output quantity meter
OUT2:	Switching output Input counter reset analog output