

SDG100



Compressed air meter

SDG4"/METRIS PB DN100

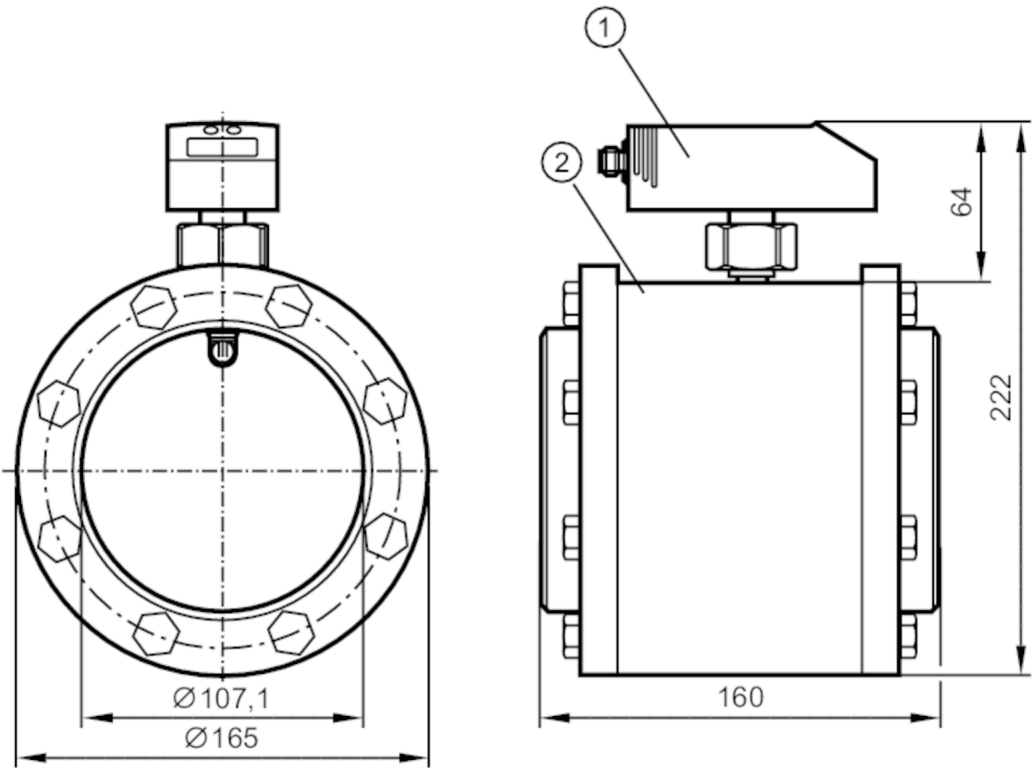
phase-out article

Discontinuation date: 12/31/2024

Alternative articles: SDG550

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

please note that sensors with a production date before 2010 have a modified pitch circle



- 1 Flow sensor
- 2 pipe section



Product characteristics	
Number of inputs and outputs	Number of digital outputs: 2; Number of analogue outputs: 1
Measuring range [m³/h]	15...4400
Process connection	flange DN100 according to: DIN EN 10220
Application	
Application	totaliser function
Media	compressed air
Note on media	air quality ISO 8573-1
	class 141
	class 344
Medium temperature [°C]	0...60
Pressure rating [bar]	16
Pressure rating [MPa]	1.6



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Electrical data		
Operating voltage	[V]	19...30 DC
Current consumption	[mA]	< 100
Protection class		III
Reverse polarity protection		yes
Power-on delay time	[s]	0.5
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	[m³/h]	15...4400
Display range	[m³/h]	0...5320
Volumetric flow quantity monitoring		
Pulse value		10 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 I; class 344)
Response 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



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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)
MTTF	[ANN]	214

Mechanical data		
Weight	[g]	13873
Materials	PBT-GF20; PC; PC; stainless steel (1.4301 / 304); FKM; pipe section: steel galvanised	
Materials (wetted parts)	stainless steel (316 / 1.4401); stainless steel (1.4301 / 304); ceramics glass passivated; PEEK; polyester; FKM; aluminium anodised; steel galvanised	
Process connection	flange DN100 according to:DIN EN 10220	

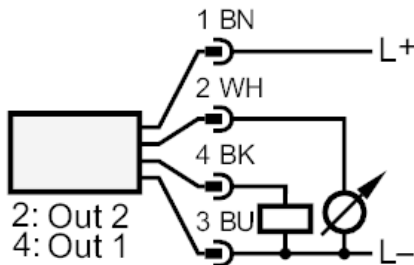
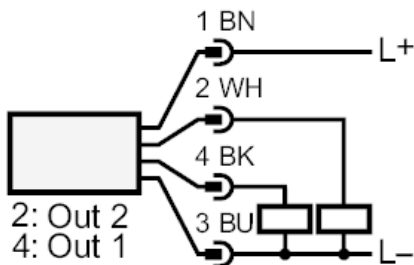
Remarks	
Remarks	MW = measured value
	MEW = Final value of the measuring range
	Measuring, display and setting ranges refer to the standard volume flow according to DIN ISO 2533.
	For information about installation and operation please see the operating instructions.
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A



Connection



- OUT1: switching output
Pulse output quantity meter
- OUT2: switching output
input counter reset
analogue output