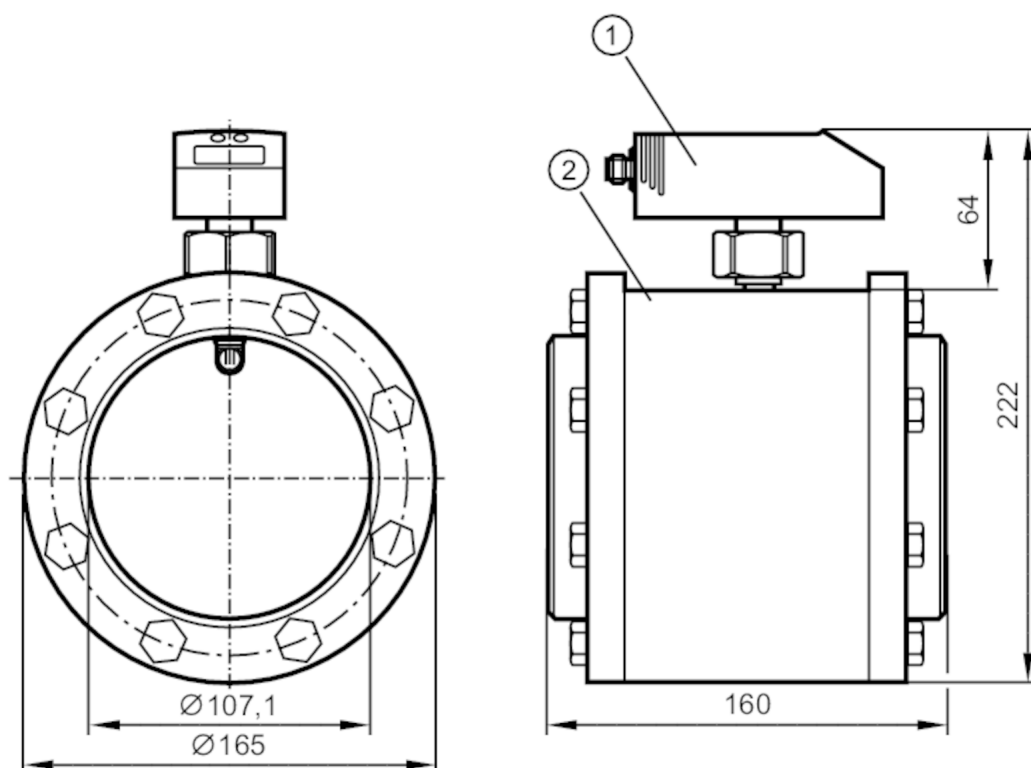


SDG100



Compressed air meter

SDG4"/METRIS PB DN100



- 1 Flow sensor
- 2 pipe section



Application

Application	totaliser function
Media	compressed air
Medien	air quality ISO 8573-1
	class 141
	class 344
Medium temperature [°C]	0...60
Pressure rating [bar]	16

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



Compressed air meter

SDG4"/METRIS PB DN100

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 / ; class 344)
Response times		
Flow monitoring		
Response time [s]		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)
MTTF [years]		214

SDG100



Compressed air meter

SDG4"/METRIS PB DN100

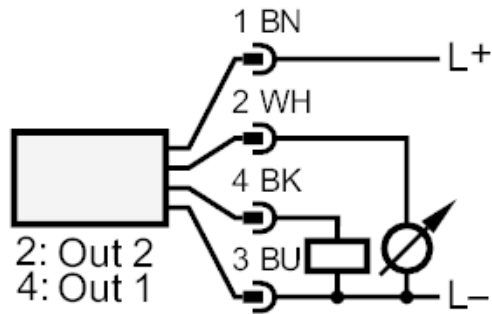
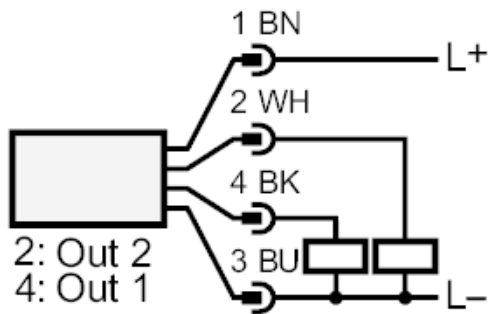
Mechanical data	
Weight	[g] 14285
Materials	PBT-GF20; PC; PC; stainless steel (1.4301 / 304); FKM; pipe section: steel galvanised
Materials (wetted parts)	stainless steel (1.4401 / 316); stainless steel (1.4301 / 304); ceramics glass passivated; PEEK; polyester; FKM; aluminium anodised; steel galvanised
Process connection	flange DN100
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



Connection



OUT1:	switching output
	Pulse output quantity meter
OUT2:	switching output
	Pulse output quantity meter
	analogue output