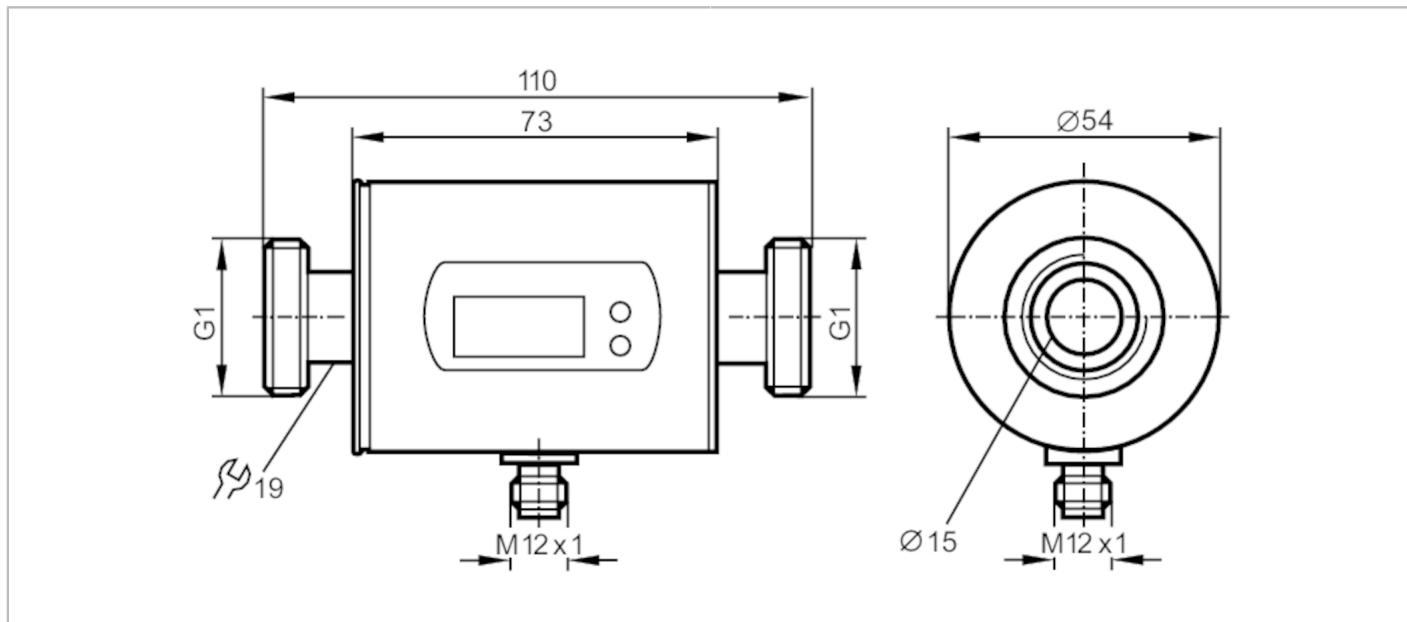


SM8004

Magnetic-inductive flow meter

SMR11GGX50KG/US100



CE PA CRN cUL us LISTED EC 1935/2004 UK CA

Product characteristics

Number of inputs and outputs	Number of analogue outputs: 2
Measuring range	0.2...100 l/min 0.1...26.4 gpm
Process connection	threaded connection G 1 DN25 flat seal

Application

Special feature	Gold-plated contacts
Application	for industrial applications
Installation	connection to pipe by means of an adapter
Media	conductive liquids; water; hydrous media
Note on media	conductivity: $\geq 20 \mu\text{S}/\text{cm}$ viscosity: $< 70 \text{ mm}^2/\text{s}$ (40°C)
Medium temperature [°C]	-10...70
Pressure rating [bar]	16
Pressure rating [MPa]	1.6
MAWP (for applications according to CRN) [bar]	11.2

Electrical data

Operating voltage [V]	20...30 DC; (to SELV/PELV)
Current consumption [mA]	120; (24 V)
Protection class	III
Reverse polarity protection	yes
Power-on delay time [s]	5

Inputs / outputs

Number of inputs and outputs	Number of analogue outputs: 2
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Outputs

Total number of outputs	2
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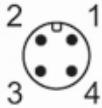
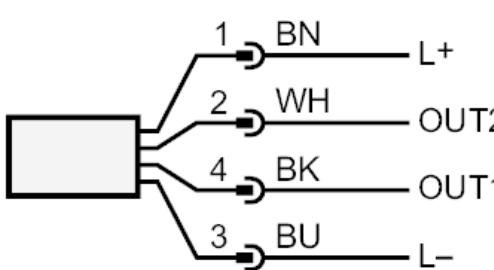
Output signal		analogue signal
Number of analogue outputs		2
Analogue current output [mA]		4...20; (scalable)
Max. load [Ω]		500
Overload protection		yes
Measuring/setting range		
Measuring range	0.2...100 l/min	0.1...26.4 gpm
Display range	-120...120 l/min	-31.7...31.7 gpm
Resolution	0.1 l/min	0.05 gpm
Analogue start point ASP	0...80 l/min	0...21.1 gpm
Analogue end point AEP	20...100 l/min	5.3...26.4 gpm
In steps of	0.1 l/min	0.05 gpm
Temperature monitoring		
Measuring range [°C]		-20...80
Resolution [°C]		0.2
Analogue start point [°C]		-20...60
Analogue end point [°C]		0...80
In steps of [°C]		0.2
Accuracy / deviations		
Flow monitoring		
Accuracy (in the measuring range)		± (2 % MW + 0,5 % MEW)
Repeatability		± 0,2% MEW
Temperature monitoring		
Accuracy [K]		± 2,5 (Q > 1 l/min)
Response times		
Flow monitoring		
Response time [s]		0.15; (dAP = 0, T19)
Damping process value dAP [s]		0...3
Temperature monitoring		
Dynamic response T05 / T09 [s]		T09 = 20 (Q > 1 l/min)
Operating conditions		
Ambient temperature [°C]		-10...60
Storage temperature [°C]		-25...80
Protection		IP 67
Tests / approvals		
EMC	DIN EN 60947-5-9	500 V withstand voltage (V DC)
CPA approval	model number	009MI
	accuracy class	-
	maximum allowable error	± 2,5 % FS
	Q (min)	0,01 m³/h
	Q (t)	-
	Q (max)	6 m³/h
Shock resistance	DIN IEC 68-2-27	20 g (11 ms)
Vibration resistance	DIN IEC 68-2-6	5 g (10...2000 Hz)

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MTTF	[years]	175		
Pressure Equipment Directive	Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request			
Mechanical data				
Weight	[g]	576.9		
Materials		stainless steel (316L/1.4404); PBT-GF20; PC; FKM; TPE		
Materials (wetted parts)		stainless steel (316L/1.4404); PEEK; FKM		
Process connection		threaded connection G 1 DN25 flat seal		
Displays / operating elements				
Display	Display unit	6 x LED, green (l/min, m³/h, gpm, gph, °C, °F)		
	measured values	alphanumeric display, 4-digit		
	programming	alphanumeric display, 4-digit		
Display unit		l/min; m³/h; gpm; gph; °C; °F		
Remarks				
Remarks	MW = measured value MEW = Final value of the measuring range			
Pack quantity	1 pcs.			
Electrical connection				
Connector: 1 x M12; coding: A; Contacts: gold-plated				
				
Connection				
				
colours to DIN EN 60947-5-2				
OUT1:	analogue output Temperature monitoring			
OUT2:	analogue output volumetric flow quantity monitoring			
Core colours :				
BK =	black			
BN =	brown			
BU =	blue			
WH =	white			

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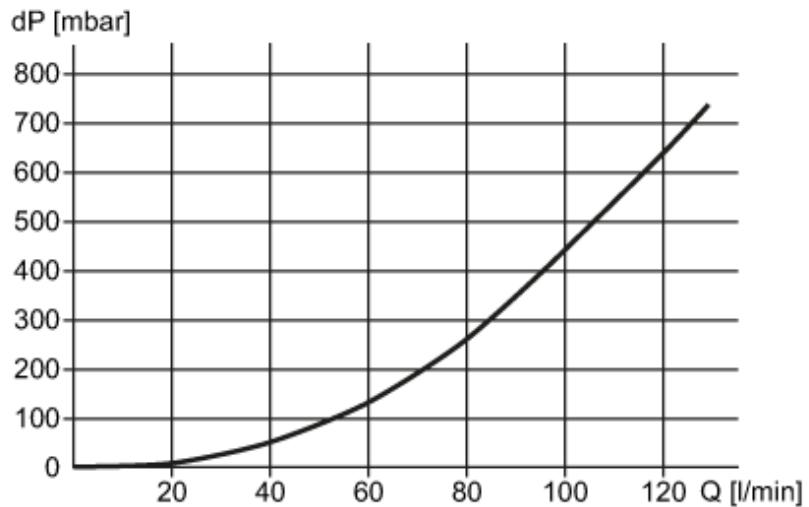


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Diagrams and graphs

Pressure loss



dP Pressure loss

Q volumetric flow quantity