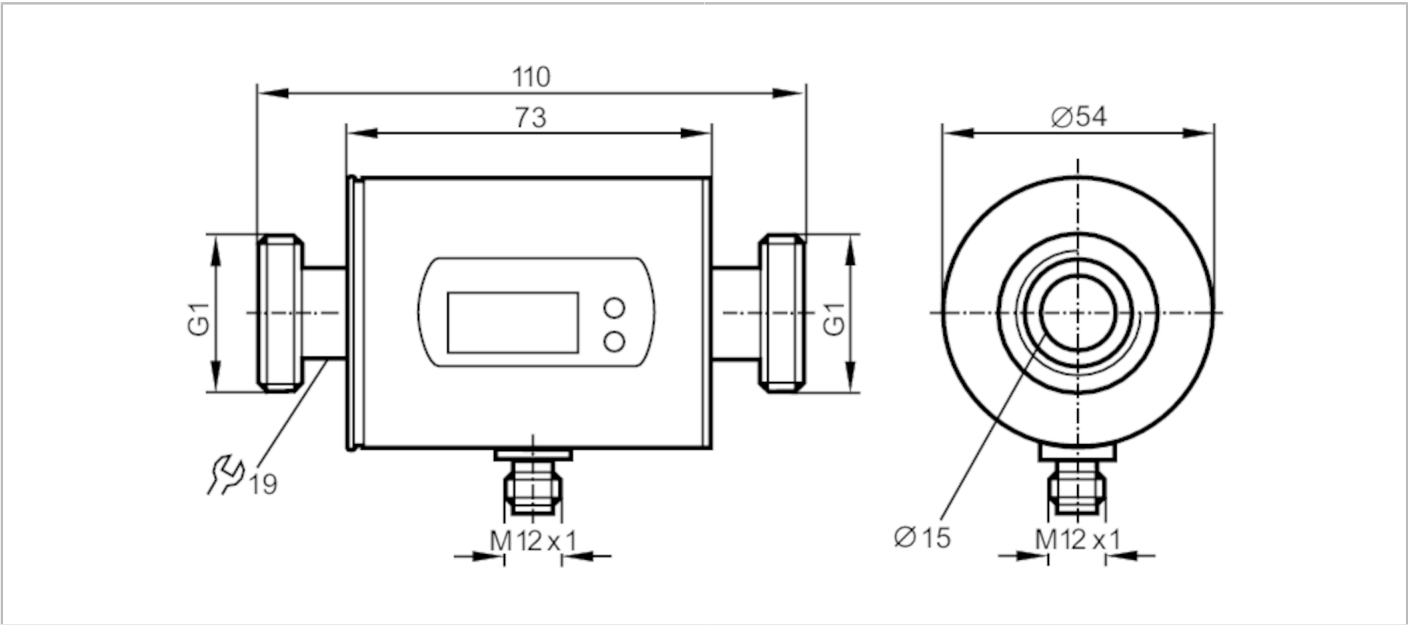


SM0504



Magnetic-inductive flow meter

SMR11GGX50KG/US100



Product characteristics		
Number of inputs and outputs	Number of analogue outputs: 2	
Measuring range	6...1800 gph	0.1...30 gpm
Process connection	threaded connection G 1 external thread 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: ≥ 20 µS/cm	
	viscosity: < 70 mm²/s (40 °C)	
Medium temperature	[°F]	14...158
Pressure rating	[bar]	16
Pressure rating	[psi]	232
Electrical data		
Operating voltage	[V]	18...30 DC; (to SELV/PELV)
Current consumption	[mA]	95; (24 V)
Min. insulation resistance	[MΩ]	100; (500 V DC)
Protection class		III
Reverse polarity protection		yes
Power-on delay time	[s]	5
Measuring principle		magnetic-inductive
Inputs / outputs		
Number of inputs and outputs	Number of analogue outputs: 2	
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	6...1800 gph	0.1...30 gpm
Display range	-1902...1902 gph	-31.7...31.7 gpm
Resolution	2 gph	0.05 gpm
Analogue start point ASP	0...1268 gph	0...21.15 gpm
Analogue end point AEP	318...1800 gph	5.3...30 gpm
In steps of	2 gph	0.05 gpm

Temperature monitoring

Measuring range [°F]	-4...176
Resolution [°F]	0.5
Analogue start point [°F]	-4...140.5
Analogue end point [°F]	31.5...176
In steps of [°F]	0.5

Accuracy / deviations

Flow monitoring	
Accuracy (in the measuring range)	± (0,8 % MW + 0,5 % MEW)
Repeatability	± 0,2% MEW
Temperature monitoring	
Accuracy [K]	± 4,5 (Q > 0,26 gpm)

Response times

Flow monitoring	
Response time [s]	0.15; (dAP = 0)
Damping process value dAP [s]	0...5
Temperature monitoring	
Dynamic response T05 / T09 [s]	T09 = 20 (Q > 0,26 gpm)

Operating conditions

Ambient temperature [°F]	14...140
Storage temperature [°F]	-13...176
Protection	IP 67

Tests / approvals

EMC	DIN EN 60947-5-9	500 V withstand voltage (V DC)
Shock resistance	DIN IEC 68-2-27	20 g (11 ms)
Vibration resistance	DIN IEC 68-2-6	5 g (10...2000 Hz)
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
Housing	cylindrical

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Dimensions	[mm]	Ø 54 / L = 110
Materials		stainless steel (316L/1.4404); PBT-GF20; PC; EPDM/X
Materials (wetted parts)		stainless steel (316L/1.4404); Hastelloy; PEEK; FKM
Process connection		threaded connection G 1 external thread DN25 flat seal

Displays / operating elements

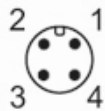
Display	Display unit	6 x LED, green (l/min, m³/h, gpm, gph, °C, °F)
	measured values	alphanumeric display, 4-digit
	programming	alphanumeric display, 4-digit
Display unit		l/min; m³/h; gpm; gph; °C; °F

Remarks

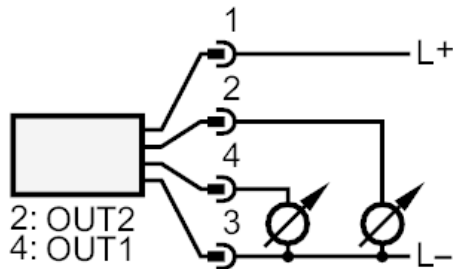
Remarks	MW = measured value
	MEW = Final value of the measuring range
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A; Contacts: gold-plated



Connection



OUT1:	analogue output Temperature monitoring
OUT2:	analogue output volumetric flow quantity monitoring

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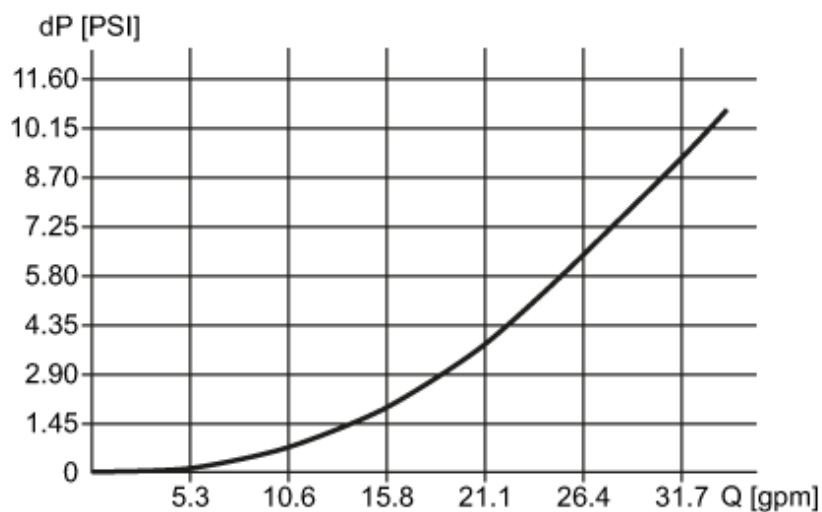


Magnetic-inductive flow meter

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Diagrams and graphs

Pressure loss



dP Pressure loss

Q volumetric flow quantity