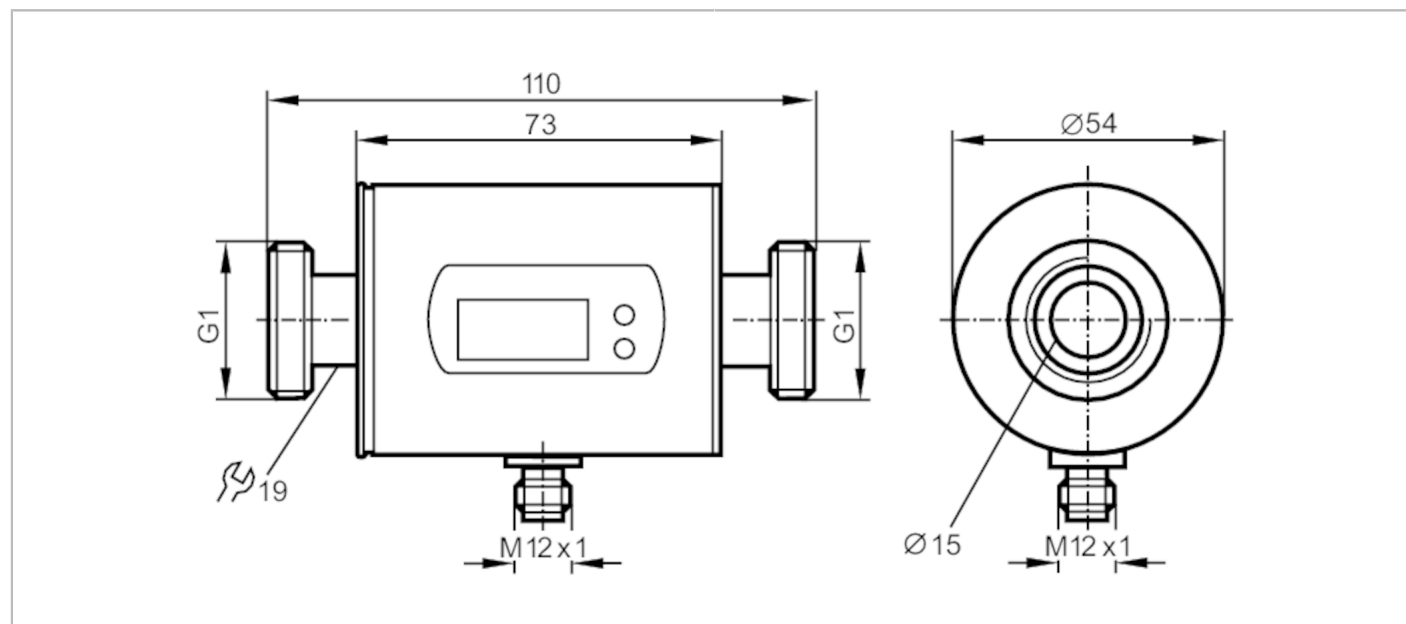


SM0504



Magnetic-inductive flow meter

SMR11GGX50KG/US100



Application		
Application		for industrial applications
Installation		connection to pipe by means of an adapter
Media		conductive liquids; water; hydrous media
Medien		conductivity: $\geq 20 \mu\text{S/cm}$ viscosity: $< 70 \text{ mm}^2/\text{s}$ (40 °C)
Medium temperature	[°F]	14...158
Pressure rating	[bar]	16
Pressure rating	[psi]	232
Electrical data		
Operating voltage	[V]	18...30 DC; (according to EN 50178 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
Inputs / outputs		
Number of inputs and outputs		Number of analogue outputs: 2
Outputs		
Total number of outputs		2
Output signal		analogue signal
Number of analogue outputs		2
Analogue current output	[mA]	4...20; (scalable)
Max. load	[Ω]	500
Overload protection		yes



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Measuring/setting range			
Measuring range		0.1...30 gpm	6...1800 gph
Display range		-31.7...31.7 gpm	-1902...1902 gph
Resolution		0.05 gpm	2 gph
Analogue start point ASP		0...21.15 gpm	0...1268 gph
Analogue end point AEP		5.3...30 gpm	318...1800 gph
In steps of		0.05 gpm	2 gph
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 for the switching output 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]	592.6	
Materials		stainless steel (1.4404 / 316L); PBT-GF20; PC; EPDM/X	
Materials (wetted parts)		stainless steel (1.4404 / 316L); Hastelloy; PEEK; FKM	
Process connection		threaded connection G 1 flat seal	

SM0504



Magnetic-inductive flow meter

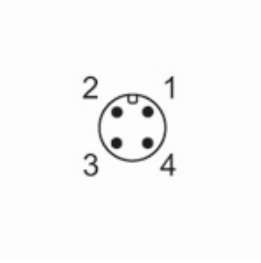
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Displays / operating elements		
Display	Display unit	6 x LED, green (l/min, m³/h, gpm, gph, °C, °F)
	measured values	alphanumeric display, 4-digit
	programming	alphanumeric display, 4-digit
Display unit	l/min; m³/h; gpm; gph; °C; °F	

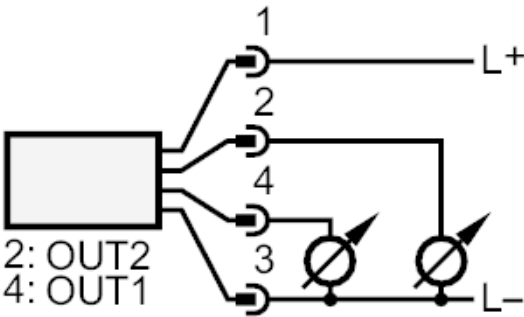
Remarks	
Remarks	MW = measured value
	MEW = Final value of the measuring range
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; Contacts: gold-plated



Connection



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

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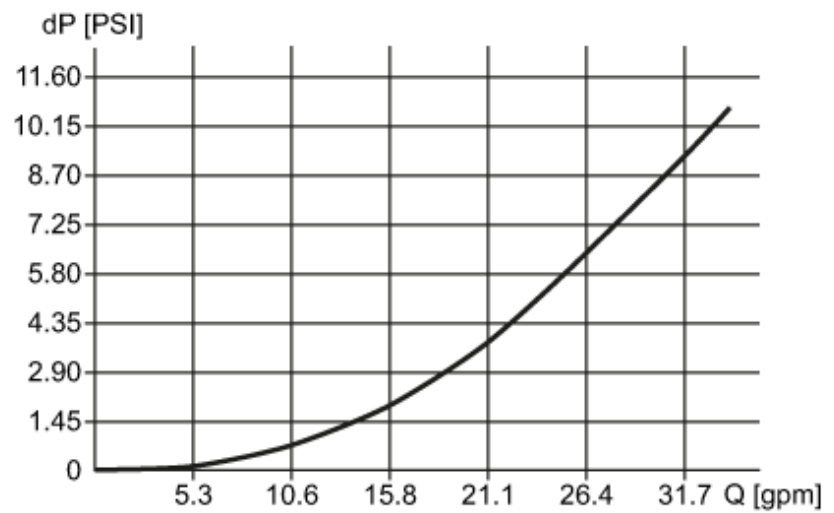


Magnetic-inductive flow meter

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Diagrams and graphs

Pressure loss



dP Pressure loss

Q volumetric flow quantity