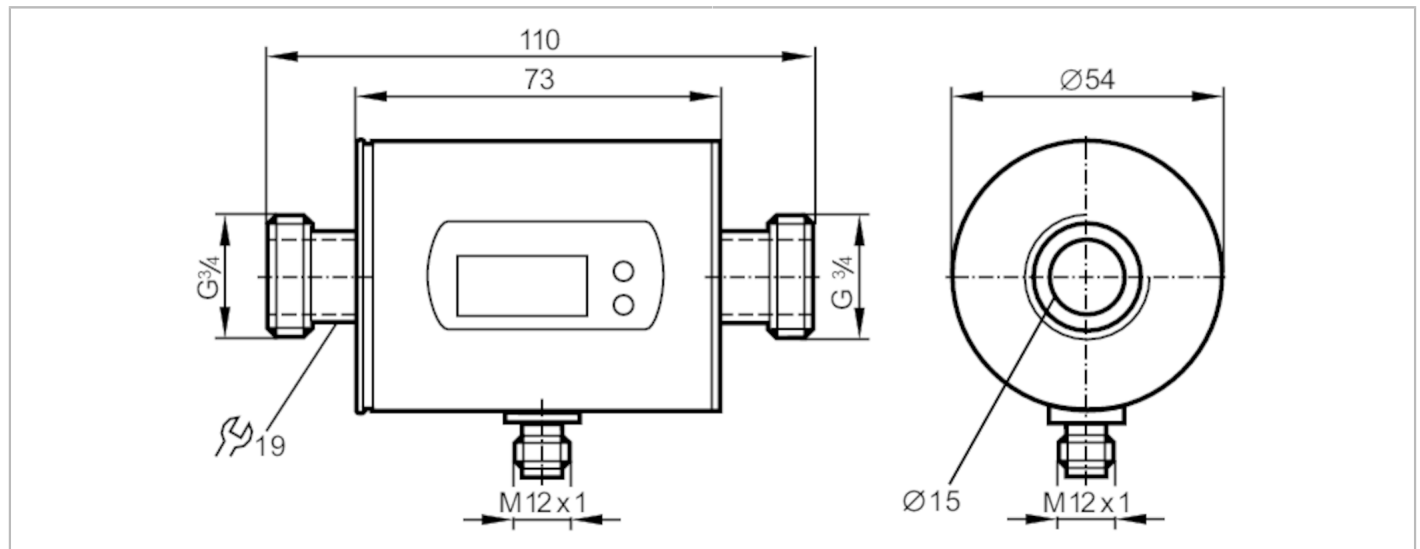


SM7004



Magnetic-inductive flow meter

SMR34GGX50KG/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	[°C] -10...70
Pressure rating	[bar] 16

Electrical data

Operating voltage	[V] 20...30 DC; (according to EN 50178 SELV/PELV)
Current consumption	[mA] 120; (24 V)
Protection class	III
Reverse polarity protection	yes
Power-on delay time	[s] 5

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

Measuring/setting range

Measuring range	0.02...13.22 gpm	0.2...50 l/min
Display range	-15.86...15.86 gpm	-60...60 l/min
Resolution	0.02 gpm	0.1 l/min
Analogue start point ASP	0...10.58 gpm	0...40 l/min
Analogue end point AEP	2.64...13.22 gpm	10...50 l/min
In steps of	0.02 gpm	0.1 l/min

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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)
Damping for the switching output 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)
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]	562.2
Materials	stainless steel (1.4404 / 316L); PBT-GF20; PC; FKM; TPE	
Materials (wetted parts)	stainless steel (1.4404 / 316L); PEEK; FKM	
Process connection	threaded connection G 3/4 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.	

SM7004



Magnetic-inductive flow meter

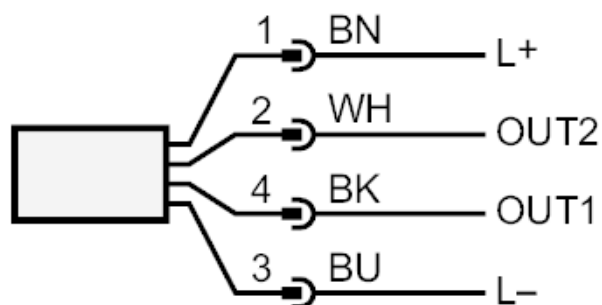
SMR34GGX50KG/US100

Electrical connection

Connector: 1 x M12; 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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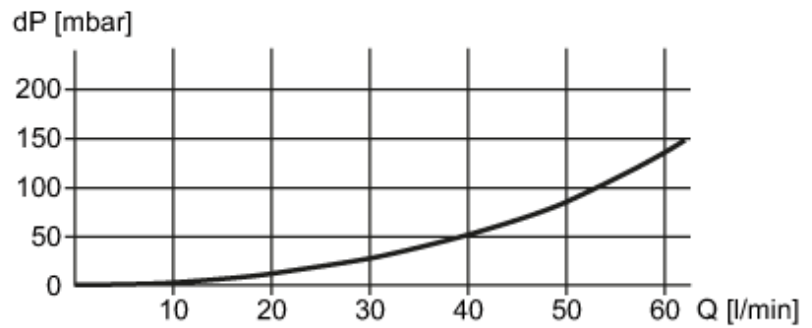
Magnetic-inductive flow meter

SMR34GGX50KG/US100



Diagrams and graphs

Pressure loss



dP Pressure loss

Q volumetric flow quantity