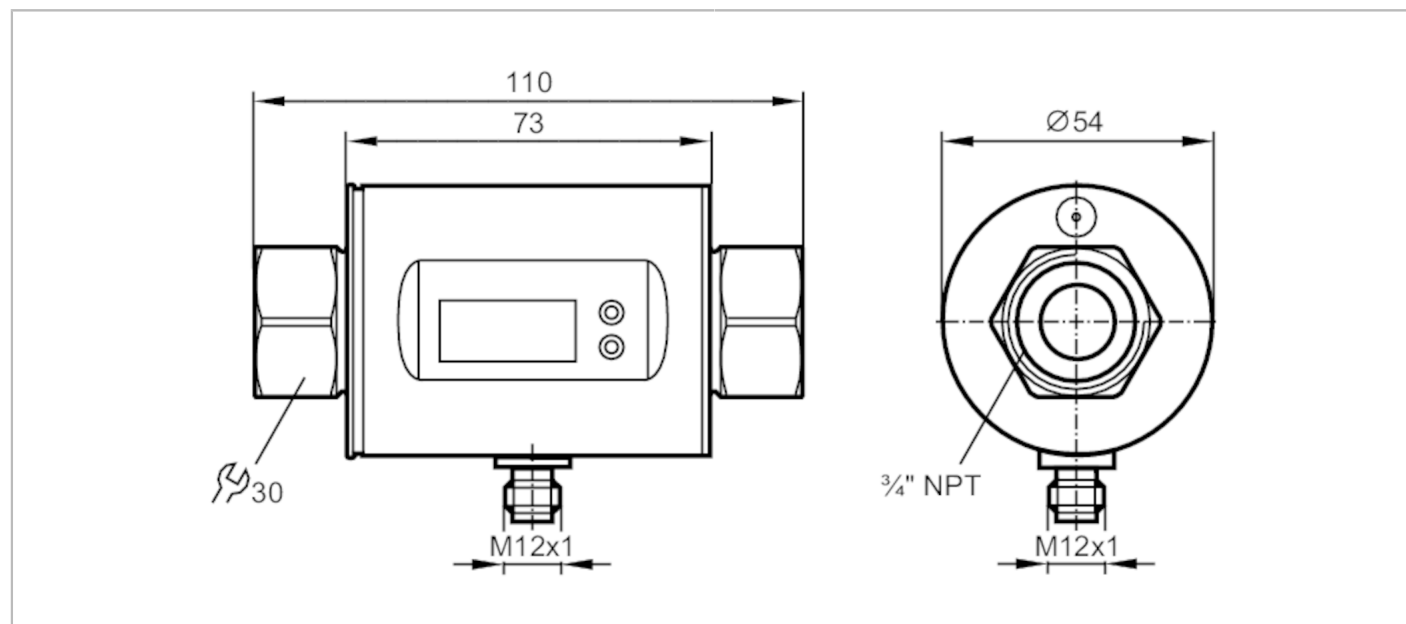


SM7604



Magnetic-inductive flow meter

SMN34GGX50KG/US-100



Product characteristics

Number of inputs and outputs	Number of analogue outputs: 2
Measuring range	0.2...50 l/min 0.02...13.22 gpm
Process connection	threaded connection 3/4" NPT DN20

Application

Special feature	Gold-plated contacts
Application	for industrial applications
Media	conductive liquids; water; hydrous media
Note on media	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
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
Output signal	analogue signal



Magnetic-inductive flow meter

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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...50 l/min	0.02...13.22 gpm
Display range	-60...60 l/min	-15.86...15.86 gpm
Resolution	0.1 l/min	0.02 gpm
Analogue start point ASP	0...40 l/min	0...10.58 gpm
Analogue end point AEP	10...50 l/min	2.64...13.22 gpm
In steps of	0.1 l/min	0.02 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	008MI
	accuracy class	-
	maximum allowable error	± 2,5 % FS
	Q (min)	0,01 m³/h
	Q (t)	-
	Q (max)	3 m³/h
Shock resistance	DIN EN 60068-2-27	20 g (11 ms)
Vibration resistance	DIN EN 60068-2-6	5 g (10...2000 Hz)
MTTF [ANN]	175	

SM7604



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Pressure Equipment Directive	Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request
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Mechanical data

Weight	[g]	527.5
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 3/4" NPT DN20	

Displays / operating elements

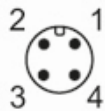
Display	Display unit	6 x LED, green (l/min, m³/h, gpm, gph, °C, °F)
	measured values	alphanumeric display, 4-digit
	programming	alphanumeric display, 4-digit
Display unit	l/min; m³/h; gpm; gph; °C; °F	

Remarks

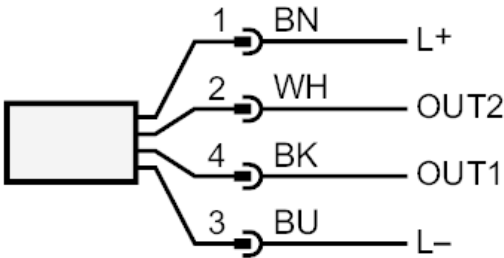
Remarks	MW = measured value
	MEW = Final value of the measuring range
Pack quantity	1 pcs.

Electrical connection

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



Connection



OUT1: colours to DIN EN 60947-5-2
OUT2: analogue output Temperature monitoring
analogue output volumetric flow quantity monitoring
Core colours :
BK = black
BN = brown
BU = blue
WH = white

SM7604

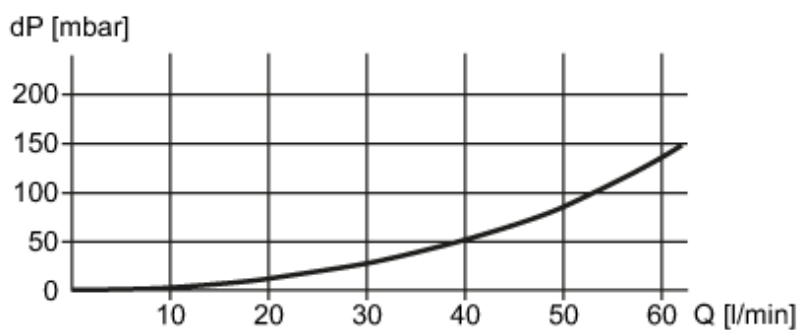
Magnetic-inductive flow meter

SMN34GGX50KG/US-100



Diagrams and graphs

Pressure loss



dP Pressure loss

Q volumetric flow quantity