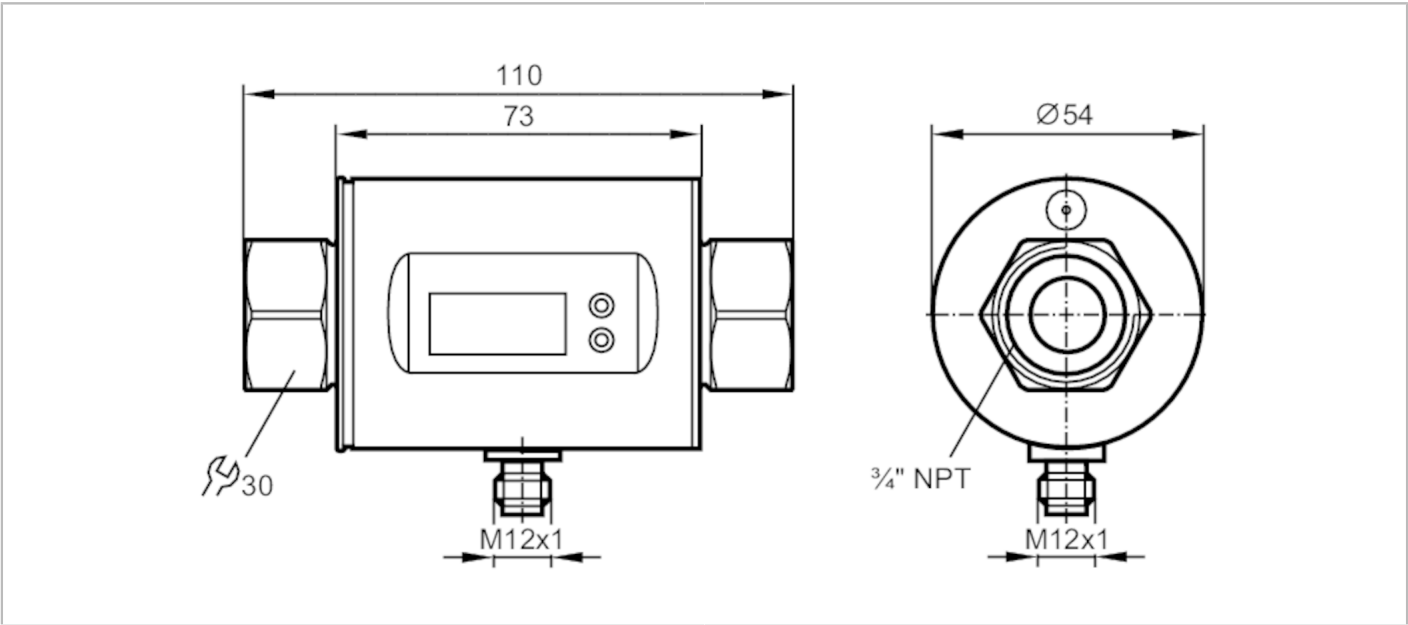


SM7604



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 internal thread DN20	
Application		
Special feature	Gold-plated contacts	
Application	for industrial applications	
Media	conductive liquids; water; hydrous media	
Note on media	conductivity: ≥ 20 µS/cm	
	viscosity: < 70 mm²/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
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	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 [$^{\circ}\text{C}$]	-20...80
Resolution [$^{\circ}\text{C}$]	0.2
Analogue start point [$^{\circ}\text{C}$]	-20...60
Analogue end point [$^{\circ}\text{C}$]	0...80
In steps of [$^{\circ}\text{C}$]	0.2

Accuracy / deviations

Flow monitoring	
Accuracy (in the measuring range)	$\pm (2 \% \text{ MW} + 0,5 \% \text{ MEW})$
Repeatability	$\pm 0,2\% \text{ MEW}$

Temperature monitoring

Accuracy [K]	$\pm 2,5 (Q > 1 \text{ l/min})$
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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)
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Operating conditions

Ambient temperature [$^{\circ}\text{C}$]	-10...60
Storage temperature [$^{\circ}\text{C}$]	-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	$\pm 2,5 \% \text{ FS}$
	Q (min)	0,01 m ³ /h
	Q (t)	-
	Q (max)	3 m ³ /h
Shock resistance	DIN EN 60068-2-27	20 g (11 ms)
Vibration resistance	DIN EN 60068-2-6	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]	527.5
Housing		cylindrical
Dimensions	[mm]	Ø 54 / L = 110
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 3/4" NPT internal thread 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





Magnetic-inductive flow meter

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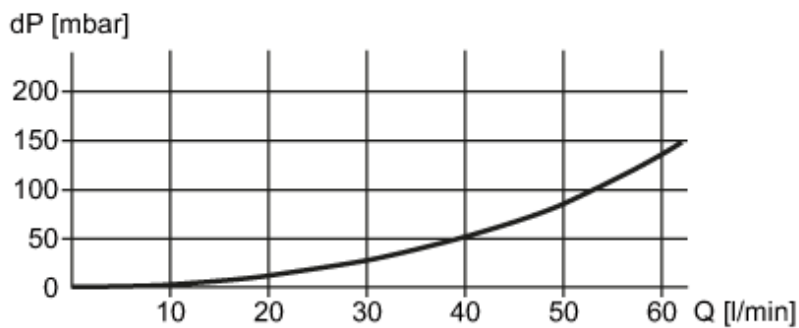
Connection



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

Diagrams and graphs

Pressure loss



dP Pressure loss
 Q volumetric flow quantity