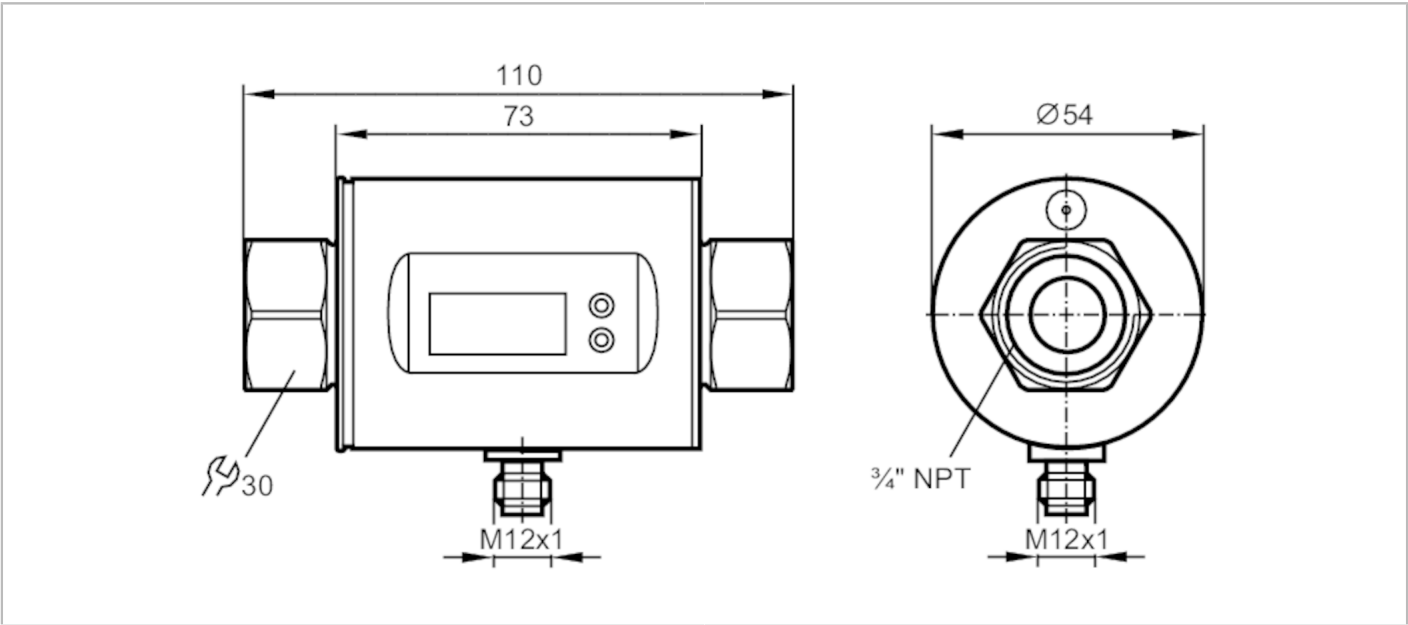


SM7604



Magnetic-inductive flow meter

SMN34GGX50KG/US-100



Product characteristics		
Number of inputs and outputs	Number of analog 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		
System	gold-plated contacts	
Application	for industrial applications	
Media	Conductive liquids; water; water-based media	
Note on media	conductivity: ≥ 20 μS/cm	
	viscosity: < 70 mm²/s (40 °C)	
Medium temperature [°C]	-10...70	
Pressure rating	16 bar	1.6 MPa
MAWP (for applications according to CRN)	10.4 bar	1.04 MPa
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 analog outputs: 2	
Outputs		
Total number of outputs	2	
Output signal	analog signal	
Number of analog outputs	2	

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Analog 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
Analog start point ASP	0...40 l/min	0...10.58 gpm
Analog 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
Analog start point	[°C]	-20...60
Analog 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)
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Reaction 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	[°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	[years]	175
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
Housing		tubular
Inlet pipe length		3 x DN
Outlet pipe length		1 x DN
Dimensions	[mm]	Ø 54 / L = 110
Material		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 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		
		

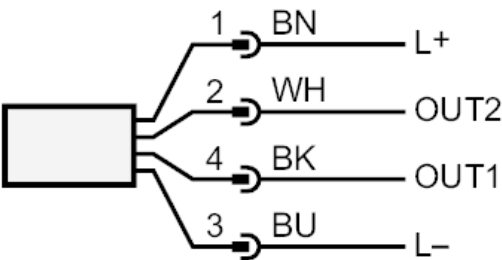
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Magnetic-inductive flow meter

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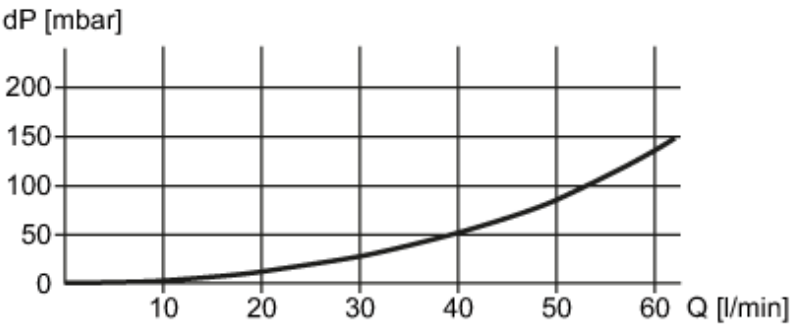
Connection



OUT1: analog output Temperature monitoring
OUT2: analog output Volumetric flow quantity monitoring
Core colors :
BK = black
BN = brown
BU = blue
WH = white

Diagrams and graphs

Pressure loss



dP Pressure loss
Q volumetric flow quantity