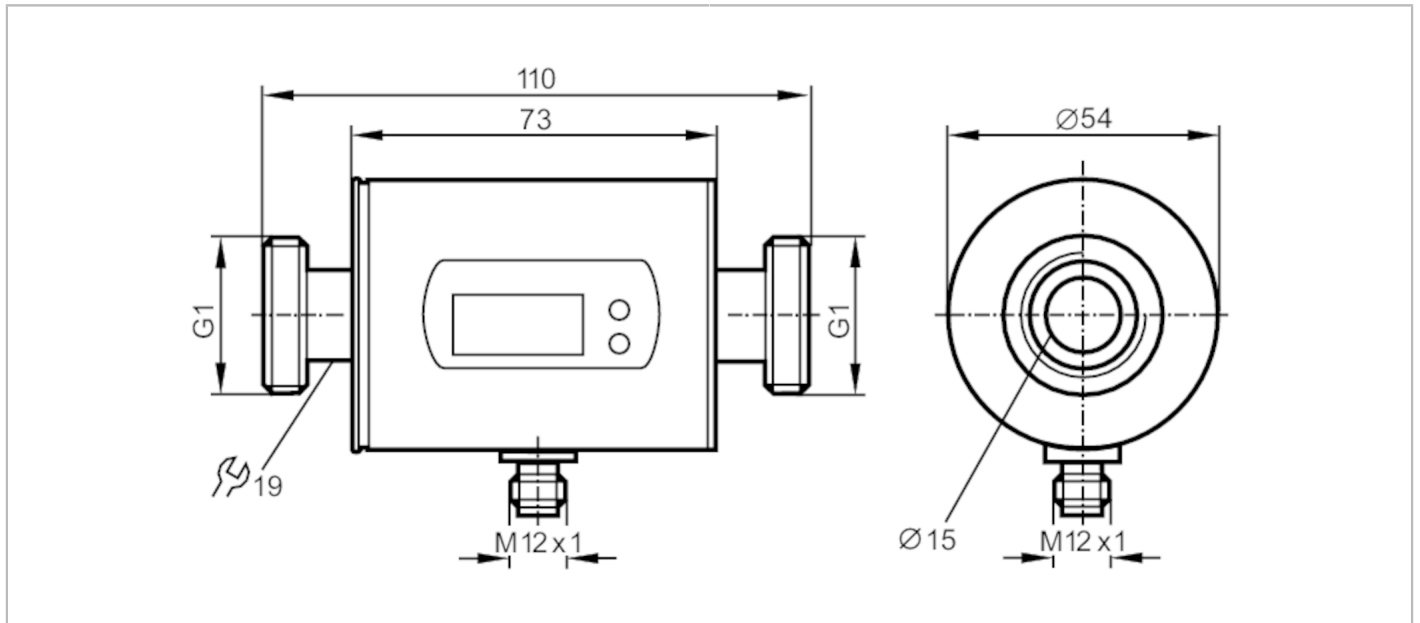


SM8004



Magnetic-inductive flow meter

SMR11GGX50KG/US100



Product characteristics	
Number of inputs and outputs	Number of analog outputs: 2
Measuring range	0.2...100 l/min 0.1...26.4 gpm
Process connection	threaded connection G 1 DN25 flat seal
Application	
System	gold-plated contacts
Application	for industrial applications
Installation	connection to pipe by means of an adapter
Media	Conductive liquids; water; water-based 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 analog outputs: 2
Outputs	
Total number of outputs	2

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Output signal	analog signal	
Number of analog outputs	2	
Analog current output [mA]	4...20; (scalable)	
Max. load [Ω]	500	
Overload protection	yes	

Measuring/setting range

Measuring range	0.2...100 l/min	0.1...26.4 gpm
Display range	-120...120 l/min	-31.7...31.7 gpm
Resolution	0.1 l/min	0.05 gpm
Analog start point ASP	0...80 l/min	0...21.1 gpm
Analog end point AEP	20...100 l/min	5.3...26.4 gpm
In steps of	0.1 l/min	0.05 gpm

Temperature monitoring

Measuring range [$^{\circ}\text{C}$]	-20...80	
Resolution [$^{\circ}\text{C}$]	0.2	
Analog start point [$^{\circ}\text{C}$]	-20...60	
Analog 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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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 [$^{\circ}\text{C}$]	-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	009MI
	accuracy class	-
	maximum allowable error	$\pm 2,5 \% \text{ FS}$
	Q (min)	0,01 m ³ /h
	Q (t)	-
	Q (max)	6 m ³ /h
Shock resistance	DIN IEC 68-2-27	20 g (11 ms)
Vibration resistance	DIN IEC 68-2-6	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]	576.9
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 G 1 DN25 flat seal

Displays / operating elements		
Display	Display unit	6 x LED, green (l/min, m ³ /h, gpm, gph, °C, °F)
	Measured values	alphanumeric display, 4-digit
	Programming	alphanumeric display, 4-digit
Display unit	l/min; m ³ /h; gpm; gph; °C; °F	

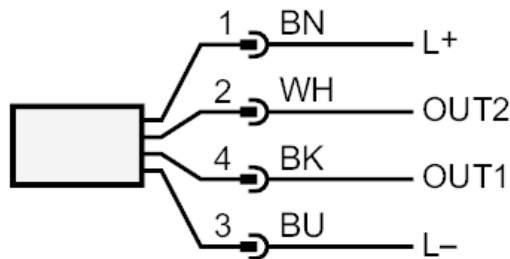
Remarks	
Remarks	MW = Measured value MEW = Final value of the measuring range
Pack quantity	1 pcs.

Electrical connection

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



Connection



OUT1: Colors to DIN EN 60947-5-2
 analog output Temperature monitoring
 OUT2: analog output Volumetric flow quantity monitoring
 Core colors :
 BK = black
 BN = brown
 BU = blue
 WH = white

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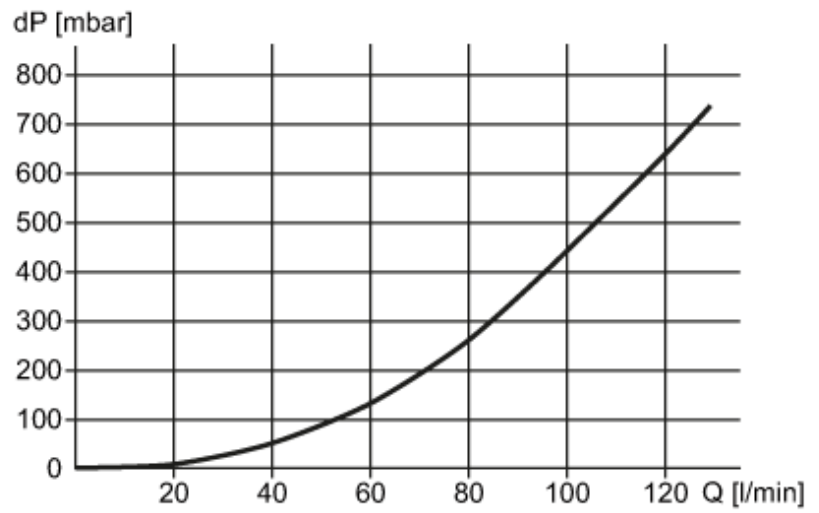


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Diagrams and graphs

Pressure loss



dP Pressure loss

Q volumetric flow quantity