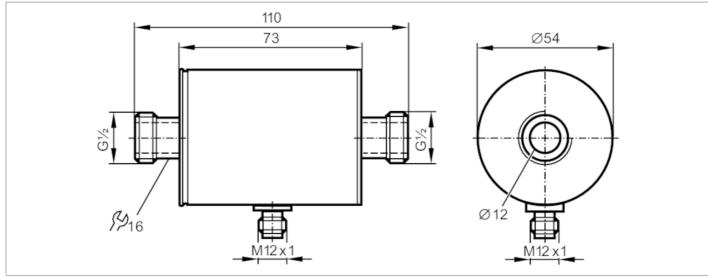
Magnetic-inductive flow meter

SMR12GGX10KG/US-100







Number of inputs and outpu	ıts	Number of analog outputs: 1
Measuring range	[l/min]	0.125
Process connection	[]	threaded connection G 1/2 DN15 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: ≥ 20 μS/cm
		viscosity: < 70 mm²/s (40 °C)
Medium temperature	[°C]	-1070
Pressure rating	[bar]	16
Pressure rating	[MPa]	1.6
MAWP (for applications according to CRN)	[bar]	17.7
Electrical data		
Operating voltage	[V]	1830 DC; (to SELV/PELV)
Current consumption	[mA]	95; (24 V)
Min. insulation resistance	[ΜΩ]	100; (500 V DC)
Protection class		III
Reverse polarity protection		yes
Power-on delay time	[s]	5
Inputs / outputs		
Number of inputs and outpu	its	Number of analog outputs: 1
Outputs		
Total number of outputs		1
Output signal		analog signal; IO-Link; (configurable)

Magnetic-inductive flow meter

SMR12GGX1OKG/US-100



Permanent current rating of switching output DC	[mA]	250		
Number of analog outputs		1		
Analog current output	[mA]	420		
Max. load	[Ω]	500		
Overload protection		yes		
Measuring/setting range				
Measuring range	[l/min]	0.125		
Accuracy / deviations				
Flow monitoring				
Accuracy (in the measuring		± (0,8 % MW + 0,5 % MEW)		
range) Repeatability		·		
		± 0,2% MEW		
Reaction times				
Flow monitoring				
Response time	[s]	0.15; (dAP = 0, T19)		
Temperature monitoring				
Dynamic response T05 / T09	[s]	T09 = 20 (Q > 1 l/min)		
Interfaces				
Communication interface		IO-Link		
Transmission type		COM2 (38,4 kBaud)		
IO-Link revision		1.1		
SDCI standard		IEC 61131-9		
Profiles		Smart Sensor: Process Data Variable; Device Identification, Device Diagnosis		
SIO mode		yes		
Required master port class		A		
Process data analog		2		
Min. process cycle time	[ms]	3		
Supported DeviceIDs		Type of operation	DeviceID	
		default	571	
Operating conditions				
Ambient temperature	[°C]	-1060		
Storage temperature	[°C]	-2580		
Protection		IP 67		
Tests / approvals				
EMC		DIN EN 60947-5-9		
CPA approval		model number	001MI	
		accuracy class	-	
		maximum allowable error	± 1,5 % FS	
		Q (min)	0,005 m³/h	
		Q (t) Q (max)	- 1,5 m³/h	
Shock resistance		DIN IEC 68-2-27	20 g (11 ms)	
Vibration resistance		DIN IEC 68-2-6	5 g (102000 Hz)	
MTTF [years]			167	

Magnetic-inductive flow meter

SMR12GGX10KG/US-100



Pressure equipment directive sound engineering practice; can be used for group 2 fluids; group 1 fluids on request

Mechanical data				
Weight	[9]	480.6		
Material		stainless steel (1.4404 / 316L); PBT-GF20; FKM; TPE		
Materials (wetted parts)		stainless steel (1.4404 / 316L); PEEK; FKM		
Process connection		threaded connection G 1/2 DN15 flat seal		

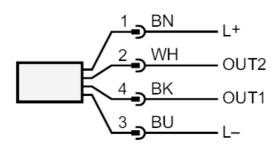
Remarks	
Remarks	MW = Measured value
	MEW = Final value of the measuring range
Pack quantity	1 pcs.

Electrical connection

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



Connection



Colors to DIN EN 60947-5-2

OUT1: IO-Link
OUT2: analog output

Core colors :

 BN =
 brown

 WH =
 white

 BK =
 black

 BU =
 blue

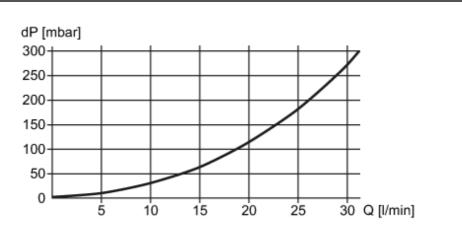
Magnetic-inductive flow meter

SMR12GGX10KG/US-100



Diagrams and graphs

Pressure loss



- dP Pressure loss
- Q volumetric flow quantity