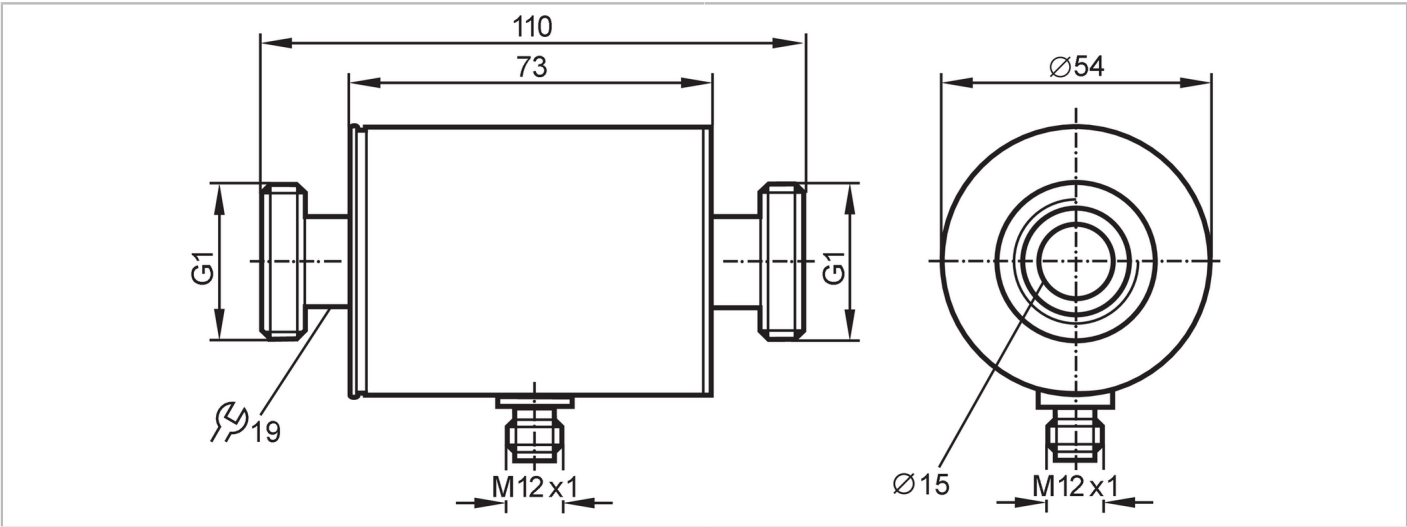


SM8050



Magnetic-inductive flow meter

SMR11GGX10KG/US



Product characteristics

Number of inputs and outputs	Number of analog outputs: 1
Measuring range [l/min]	0.2...100
Process connection	threaded connection G 1 external thread DN25 flat seal

Application

Special feature	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	16 bar 1.6 MPa
MAWP (for applications according to CRN)	10.4 bar 1.04 MPa

Electrical data

Operating voltage [V]	18...30 DC; (to SELV/PELV)
Current consumption [mA]	95; (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: 1
------------------------------	-----------------------------

Outputs

Total number of outputs	1
Output signal	analog signal; IO-Link; (configurable)
Permanent current rating of switching output DC [mA]	250

SM8050



Magnetic-inductive flow meter

SMR11GGX10KG/US

Number of analog outputs	1	
Analog current output [mA]	4...20	
Max. load [Ω]	500	
Overload protection	yes	
Measuring/setting range		
Measuring range [l/min]	0.2...100	
Accuracy / deviations		
Flow monitoring		
Accuracy (in the measuring range)	± (0,8 % MW + 0,5 % MEW)	
Repeatability	± 0,2% MEW	
Reaction times		
Flow monitoring		
Response time [s]	0.15; (dAP = 0, T19)	
Interfaces		
Communication interface	IO-Link	
Transmission type	COM2 (38,4 kBaud)	
IO-Link revision	1.1	
SDCI standard	IEC 61131-9	
Profiles	Smart Sensor - SSP 0	Generic Profiled Sensor
	Function	Device identification
	Function	Process data variable
	Function	Device diagnosis
SIO mode	yes	
Required master port class	A	
Process data analog	2	
Min. process cycle time [ms]	5	
Supported DeviceIDs	Type of operation	DeviceID
	default	577
Operating conditions		
Ambient temperature [°C]	-10...60	
Storage temperature [°C]	-25...80	
Protection	IP 67	
Tests / approvals		
EMC	DIN EN 60947-5-9	
CPA approval	model number	002MI
	accuracy class	-
	maximum allowable error	± 1,5 % FS
	Q (min)	0,01 m³/h
	Q (t)	-
	Q (max)	6 m³/h
Shock resistance	DIN IEC 68-2-27	20 g (11 ms)
Vibration resistance	DIN IEC 68-2-6	5 g (10...2000 Hz)
MTTF [years]	167	
Pressure equipment directive	sound engineering practice; can be used for group 2 fluids; group 1 fluids on request	

SM8050



Magnetic-inductive flow meter

SMR11GGX10KG/US

Mechanical data		
Weight	[g]	575
Housing		tubular
Inlet pipe length		5 x DN
Outlet pipe length		2 x DN
Dimensions	[mm]	Ø 54 / L = 110
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 external thread DN25 flat seal

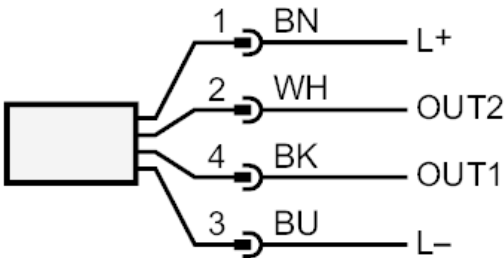
Remarks		
Remarks		MW = Measured value
		MEW = Final value of the measuring range
Pack quantity		1 pcs.

Electrical connection

Connector: 1 x M12; coding: A; Contacts: 4, gold-plated



Connection



OUT1: Colors to DIN EN 60947-5-2
OUT2: IO-Link
Core colors :
BN = brown
WH = white
BK = black
BU = blue

SM8050

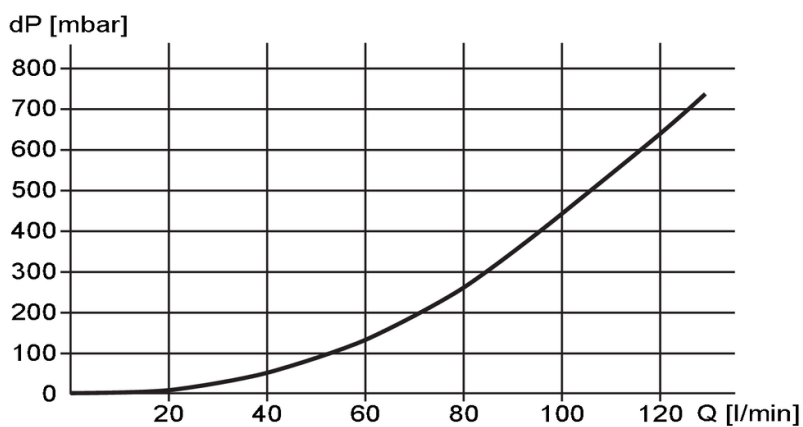
Magnetic-inductive flow meter

SMR11GGX10KG/US



Diagrams and graphs

Pressure loss



dP Pressure loss

Q volumetric flow quantity