

SM7604



Magnetic-inductive flow meter

SMN34GGX50KG/US-100

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	[°C]	-20...80
Resolution	[°C]	0.2
Analogue start point	[°C]	-20...60
Analogue end point	[°C]	0...80
In steps of	[°C]	0.2
Accuracy / deviations		
Flow monitoring		
Accuracy (in the measuring range)		$\pm (2 \% MW + 0,5 \% MEW)$
Repeatability		$\pm 0,2\% MEW$
Temperature monitoring		
Accuracy	[K]	$\pm 2,5 (Q > 1 \text{ l/min})$
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)
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	$\pm 2,5 \% FS$
	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)
MTTF	[years]	175
Pressure Equipment Directive		Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request

SM7604



Magnetic-inductive flow meter

SMN34GGX50KG/US-100

Mechanical data	
Weight [g]	527.5
Housing	cylindrical
Inlet pipe length	3 x DN
Outlet pipe length	1 x DN
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, 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	

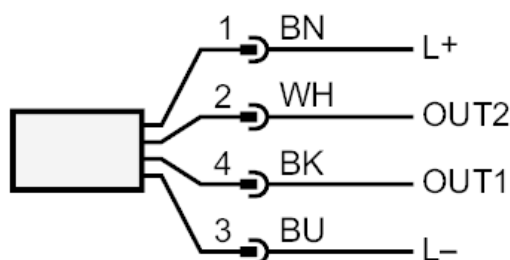
Remarks	
Remarks	MW = measured value MEW = Final value of the measuring range
Pack quantity	1 pcs.

Electrical connection

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



Connection



OUT1: analogue output Temperature monitoring
 OUT2: analogue output volumetric flow quantity monitoring
 Core colours :
 BK = black
 BN = brown
 BU = blue
 WH = white

SM7604

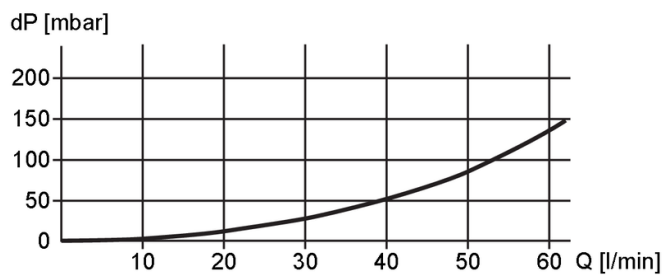


Magnetic-inductive flow meter

SMN34GGX50KG/US-100

Diagrams and graphs

Pressure loss



dP Pressure loss

Q volumetric flow quantity