

SM6604



Magnetic-inductive flow meter

SMN12GGX50KG/US-100

Number of analogue outputs		2
Analogue current output [mA]		4...20; (scalable)
Max. load [Ω]		500
Overload protection		yes
Measuring/setting range		
Measuring range	0.1...25 l/min	0.03...6.6 gpm
Display range	-30...30 l/min	-7.92...7.92 gpm
Resolution	0.02 l/min	0.01 gpm
Analogue start point ASP	0...20 l/min	0...5.28 gpm
Analogue end point AEP	5...25 l/min	1.32...6.6 gpm
In steps of	0.02 l/min	0.01 gpm
Temperature monitoring		
Measuring range [$^{\circ}\text{C}$]		-20...80
Resolution [$^{\circ}\text{C}$]		0.2
Analogue start point [$^{\circ}\text{C}$]		-20...60
Analogue 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]		$\pm 2,5 (Q > 1 \text{ l/min})$
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 [$^{\circ}\text{C}$]		-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	008MI
	accuracy class	-
	maximum allowable error	$\pm 2,5 \% \text{ FS}$
	Q (min)	0,005 m ³ /h
	Q (t)	-
	Q (max)	1,5 m ³ /h
Shock resistance	DIN EN 60068-2-27	20 g (11 ms)
Vibration resistance	DIN EN 68000-2-6	5 g (10...2000 Hz)
MTTF [years]		175

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Pressure Equipment Directive Sound engineering practice; can be used for group 2 fluids; group 1 fluids on request

Mechanical data

Weight	[g]	523.15
Materials		stainless steel (1.4404 / 316L); PBT-GF20; PC; FKM; TPE
Materials (wetted parts)		stainless steel (1.4404 / 316L); PEEK; FKM
Process connection		threaded connection 1/2" NPT DN15

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

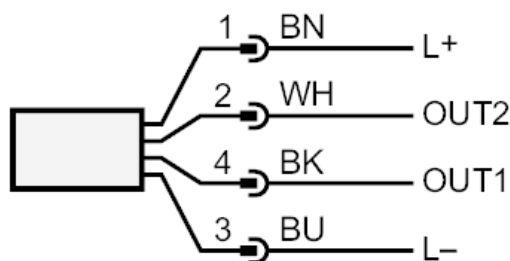
Remarks	MW = measured value
	MEW = Final value of the measuring range
Pack quantity	1 pcs.

Electrical connection

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



Connection



OUT1: colours to DIN EN 60947-5-2
 analogue output Temperature monitoring

OUT2: analogue output volumetric flow quantity monitoring

Core colours :

BK = black
 BN = brown
 BU = blue
 WH = white

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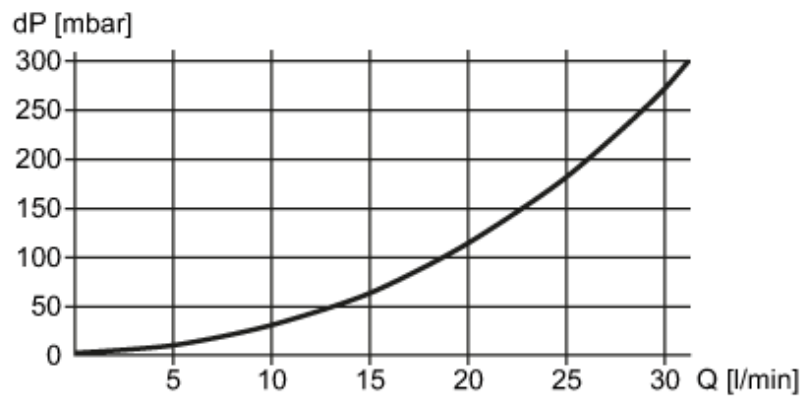


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Diagrams and graphs

Pressure loss



dP Pressure loss

Q volumetric flow quantity