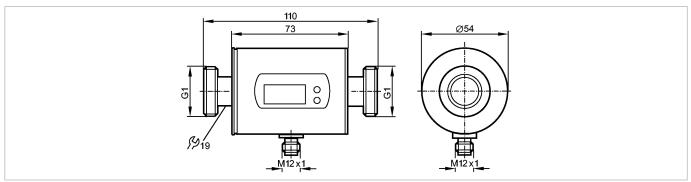
efector300°

SM8004

SMR11GGX50KG/US100



Flow sensors





Made in Germany

Product characteristics	
Magnetic-inductive flow meter	
Connector	
Process connection: G1 flat seal	
connection to pipe by means of an adapter	
2 outputs	
OUT1 = analogue signal temperature OUT2 = analogue signal flow	
Display units:	
°C / °F	
l/min, m³/h, gpm, gph	
Measuring range	
0.2100 l/min	
-20 80°C	

Conductive liquids (conductivity:>= 20 μS/cm / viscosity: < 70 mm²/s at 40 °C)
·
·
(solution). To person, headsony. To him to de to o)
-1070
DC
2030 DC ¹)
120 (24 V)
> 100 (500 V DC)
III
yes
2 x analogue (420 mA scalable)
yes
420 mA, max. 22 mA

Measuring / setting	range
Flow monitoring	

[Ω]

Max. load

Measuring range	0.2100.0 l/min	0.1026.40 gpm
Display range	-120.0120.0 l/min	-31.7031.70 gpm
Resolution	0.1 l/min	0.05 gpm
Analogue start point, ASP	0.080.0 l/min	0.0021.10 gpm

max. 500

efector300°

SM8004

Process connection

Materials (wetted parts)



SMR11GGX50KG/US100			Flow sensors
Analogue end point, AEP		20.0100.0 l/min	5.3026.40 gpm
in steps of		0.1 l/min	0.05 gpm
Temperature monitoring			
Measuring range	[°C]	-20)80
Resolution	[°C]	0.2	
Analogue start point, ASP	[°C]	-20.060.0	
Analogue end point, AEP	[°C]	0.0.	80.0
in steps of	[°C]		0.2
Accuracy / deviations			
Flow monitoring			
Accuracy			+ 0.5% MEW)
Repeatability		± 0.29	% MEW
Pressure loss (dP) / flow rate	(V)	dP [mbar] 800 700 600 500 400 300 200 100 0 20 40 60	80 100 120 Q [l/min]
Temperature monitoring			
Accuracy	[K]	± 2.5 (Q	> 1 l/min)
Reaction times			
Power-on delay time	[s]		5
Flow monitoring			
Response time	[s]	< 0.150	(dAP = 0)
Damping, dAP	[s]	0.0	3.0
Temperature monitoring			
Response time	[s]	T09 = 30 ((Q > 1 I/min)
Environment			
Pressure rating	[bar]	16	
Ambient temperature	[°C]	-1060	
Storage temperature	[°C]	-2580	
Protection		IP 67	
Tests / approvals			
EMC		EN 61000-4-2 ESD: EN 61000-4-3 HF radiated: EN 61000-4-4 Burst: EN 61000-4-5 Surge: EN 61000-4-6 HF conducted:	4 kV CD / 8 kV AD 10 V/m 2 kV 0.5 kV 10 V
Shock resistance		DIN IEC 68-2-27:	20 g (11 ms)
Vibration resistance		DIN IEC 68-2-6:	5 g (102000 Hz)
MTTF	[Years]	1	75
Mechanical data			

G1 flat seal stainless steel 316L / 1.4404; PEEK (polyether ether ketone); FKM





SMR11GGX50KG/US100



Housing materials stainless steel 316L / 1.4404; PBT-GF 20; PC (Makrolon); EPDM/X (Santoprene)

Weight [kg] 0.616

Displays / operating elements

Display unit 6 x LED green (I/min, m³/h, gpm, gph, °C, °F)

Measured values 4-digit alphanumeric display Programming 4-digit alphanumeric display

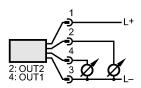
Electrical connection

Connection M12 connector; Gold-plated contacts

Wiring

OUT1 = analogue signal temperature OUT2 = analogue signal flow





Remarks		
Remarks		 ¹) to EN50178, SELV, PELV MW = measured value MEW = final value of the measuring range
Pack quantity	[piece]	1

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