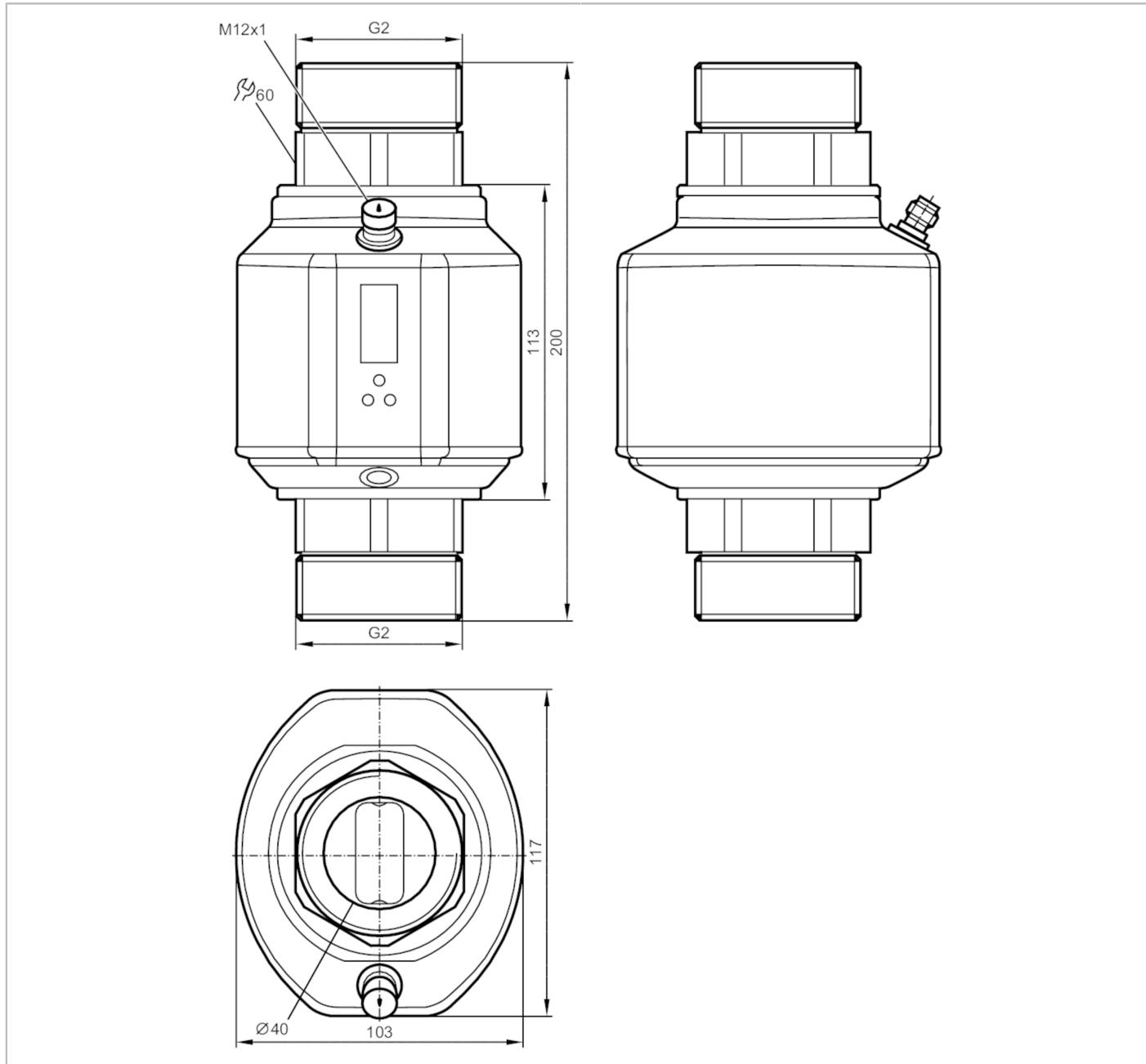


# SM9004

## Magnetic-inductive flow meter

SMR21XGX50KG/US



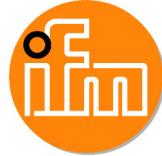
CE CRN cULus LISTED EC 1935/2004 UK

### Product characteristics

Number of inputs and outputs	Number of analog outputs: 2			
Measuring range	5...300 l/min	0.3...18 m <sup>3</sup> /h	80...4755 gph	1.3...79.3 gpm
Process connection	threaded connection G 2 DN50 flat seal			
<b>Application</b>				
System	gold-plated contacts			
Application	empty pipe detection; for industrial applications			
Installation	connection to pipe by means of an adapter			
Media	Conductive liquids; water; water-based media			



# SM9004



## Magnetic-inductive flow meter

SMR21XGX50KG/US

Accuracy	[K]	$\pm 1$ (25 °C; Q > 15 l/min) / $\pm 1$ (77 °F; Q > 4 gpm)	
<b>Reaction times</b>			
Flow monitoring			
Response time	[s]	0.35; (dAP = 0)	
Damping process value dAP	[s]	0...5	
Temperature monitoring			
Dynamic response T05 / T09	[s]	T09 = 3 (Q > 15 l/min) / T09 = 3 (Q > 4 gpm)	
<b>Software / programming</b>			
Parameter setting options		display can be deactivated; Display unit; empty pipe detection	
<b>Operating conditions</b>			
Ambient temperature		-10...60 °C / 14...140 °F	
Storage temperature		-25...80 °C / -13...176 °F	
Protection		IP 65; IP 67	
<b>Tests / approvals</b>			
EMC		DIN EN 60947-5-9	
CPA approval		model number accuracy class maximum allowable error Q (min) Q (t) Q (max) Medium temperature Medium temperature	004MI - $\pm 1,5$ % FS 0,3 m³/h - 18 m³/h -10...70 °C 14...158 °F
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]		85
Pressure equipment directive			sound engineering practice; can be used for group 2 fluids; group 1 fluids on request
<b>Mechanical data</b>			
Weight	[g]	3050	
Material		stainless steel (1.4404 / 316L); stainless steel (1.4571/316Ti ); PEI; FKM; PBT-GF20; TPE-U	
Materials (wetted parts)		stainless steel (1.4404 / 316L); stainless steel (1.4571/316Ti ); PEEK; Centellen; FKM	
Process connection		threaded connection G 2 DN50 flat seal	
<b>Displays / operating elements</b>			
Display		Display unit Function display Measured values Programming	6 x LED, green (l/min, m³/h, gpm, gph, °C, °F) 1 x LED, yellow (10³) alphanumeric display, 4-digit alphanumeric display, 4-digit
Display unit			l/min; m³/h; gpm; gph; °C; °F
<b>Accessories</b>			
Items supplied		sealings: 2, Centellen Label	
<b>Remarks</b>			
Remarks		MW = Measured value MEW = Final value of the measuring range	

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## Magnetic-inductive flow meter

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Pack quantity

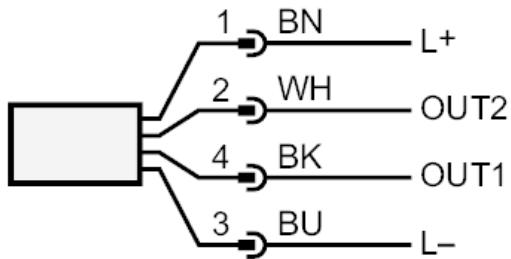
1 pcs.

### Electrical connection

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



### Connection



#### Colors to DIN EN 60947-5-2

OUT1: analog output Temperature monitoring

OUT2: analog output Volumetric flow quantity monitoring

Core colors :

BK = black

BN = brown

BU = blue

WH = white

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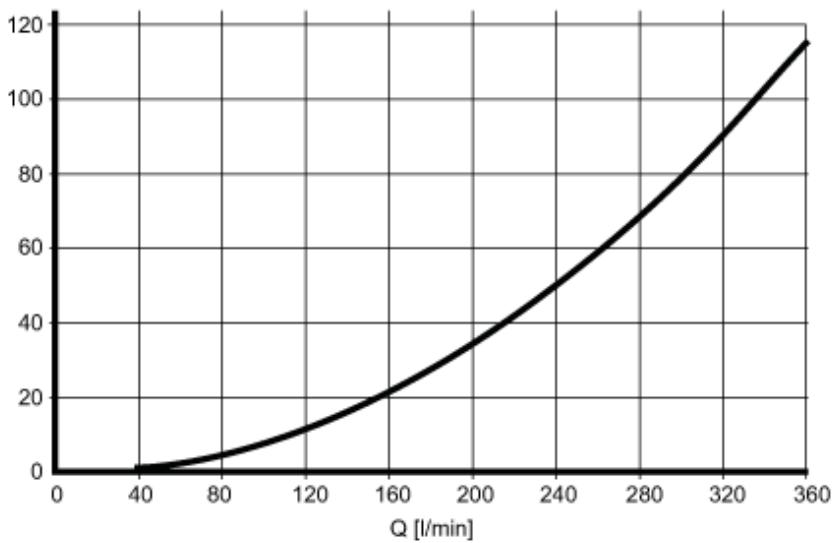
## Magnetic-inductive flow meter

SMR21XGX50KG/US

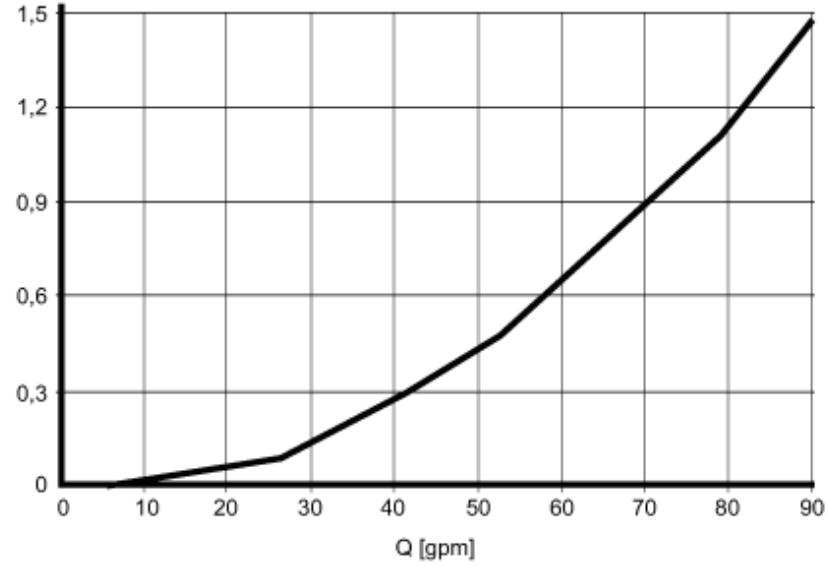
### Diagrams and graphs

Pressure loss

dP [mbar] DN50



dP [psi]



dP Pressure loss

Q volumetric flow quantity