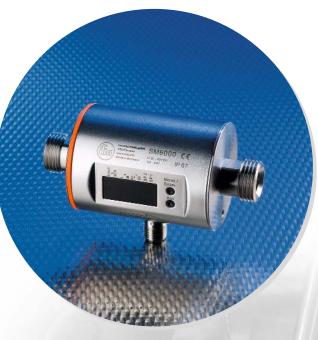




Magnetic-inductive inline flow sensor.





With flow rate, totalising and temperature indication.

- High accuracy, repeatability and measurement dynamics.
- Suitable for conductive media from 20 μS/cm, flow rate up to 25 l/min.
- Binary, analogue and pulse outputs for signal processing.
- R 1/2 and R 3/4 process connection via adapter.
- 4-digit alphanumeric LED display for representation of the units.









Measurement technique

The flow sensor is based on Faraday's principle of induction

The conductive medium flowing through a pipe in a magnetic field generates a voltage which is proportional to the flow velocity or flow rate.

Device function

This voltage is detected via electrodes and converted in the evaluation electronics.

Analogue, binary and pulse outputs offer various possibilities to process the measured data. Due to the flexible programming by means of pushbuttons the flow sensor can be adapted to different conditions. The sensor is mounted via an adapter. A high protection rating and a robust housing distinguish the sensor in the field.





Magnetic-inductive flow sensor in water cycle for quantity monitoring.



Flow sensors

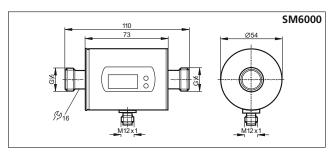


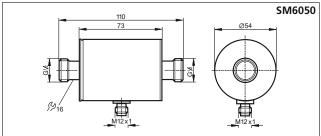
Applications:

Conductive liquids (conductivity: \geq 20 µS/cm / viscosity: < 70 mm²/s at 40 °C)

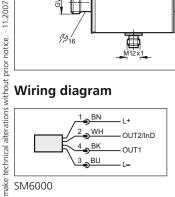
Measuring range flow [l/min]	Pulse value	Response time flow [s]	Accuracy flow	Current rating [mA]	Order no.		
M12 connector, gold-							
025	0.05 l30 000 m ³	< 0.150 (dAP = 0)	± (2 % MV + 0.5 % VMR)	2 x 200	SM6000		
M12 connector, gold-plated contacts · Electrical design DC PNP/420 mA							
025	_	< 0.150	± (2 % MV + 0.5 % VMR)	_	SM6050		

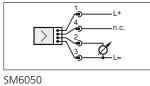
Dimensions





Wiring diagram





	Description Adapter G 1/2 - G 3/4 Process connection 3/4 flat seal Adapter G 1/2 - R 1/2 Process connection R 1/2 Grounding clamp G 1/2	no. E4018
	Adapter G 1/2 - R 1/2 Process connection R 1/2	E4019
	Grounding clamp G 1/2	E4019
0		

Further technical data

Type SM6000, SM6050							
Operating voltage	[V]	1930 DC					
Measuring range temperature	[°C]	-2080					
Short-circuit protection, pulsed	•						
Reverse polarity / overload prote	• / •						
Output function SM6000	OUT1	normally open / normally closed programmable or pulse					
	OUT2	normally open / normally closed programmable or analogue (420 mA / 010 V, scaleable)					
Output function SM6050	OUT	analogue (420 mA)					
Protection rating, protection class	IP 67, III						
Operating temperature	[°C]	-1060					
Medium temperature	[°C]	-1070					
Pressure resistance	[bar]	16					
Housing materials		high-grade stainless steel (316S12); PBT-GF 20; PC; EPDM/X (Santoprene)					
Sensor material		stainless steel (316S16); PEEK (polyether-etherketone); FKM					

Connectors and splitter boxes

Туре	Description	Order no.
	Socket, M12, 2 m black, PUR cable	EVC004
	Socket, M12, 5 m black, PUR cable	EVC005