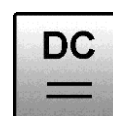
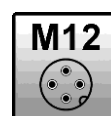
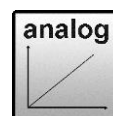


Magnetic Inductive Flow Sensor Programmable sensor for conductive liquids



- / Flow and temperature measurement
- / Consumption measurement of conductive liquids
- / Dosing function
- / TFT display
- / Process connection G 2"

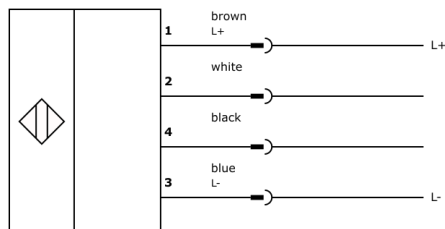
TFT color display
Analog and push-pull output



TECHNICAL DATA

Measured values	Flow rate, volume, partial volume and temperature
Reference condition	Medium temperature 15°C – 30°C, 1cSt, 500µS/cm, 1bar
Adjustable units	l/min (Standard setting ex works) l/h, m³/h, l/s, gal/m, gal/h, °C, °F
Measuring principle	Magnetic inductive
Temperature sensor	PT1000 Measurement accuracy ≤ ±2°C (flow > 0.2m/s)
Measured medium	Conductive liquids (conductivity ≥20µS/cm) Max. medium viscosity 70mm²s
Ambient temperature	Medium: -20 ... 70°C Housing: -20 ... 60 °C
Operating pressure	up to 16 bar
Spannungsversorgung	19 ... 30 VDC
Current consumption (without load)	max. 200mA (without outputs)
Analog output	3-wire, 0(4) -20mA max. load 500ohm or 0(2) -10VDC, (Ri = 500ohm)
Pulse output	Push-pull, freely scalable, configurable for partial or total volume counters
Frequency output	Push-pull, freely scalable
Alarm output	PNP, NPN, Push-Pull configurable max. 30VDC, max. 200mA short-circuit proof
Control input	MIN/MAX/partial volume rest Out1, high activ 0 < U _{low} < 10VDC 15VDC < U _{High} < Vs No internal push-ups available / active high-low signal required!
Mounting thread	G 2" inch
Housing material	Stainless steel 1.4404, display window PMMA
Protection class (EN 60529)	IP67
Connection	M12-connector, 4-pin
Inlet/outlet section	3x DN / 2xDN
Measurement accuracy	< ± (0,8% of MW + 0,5% of ME)
Repeatability	± 0,2% of ME

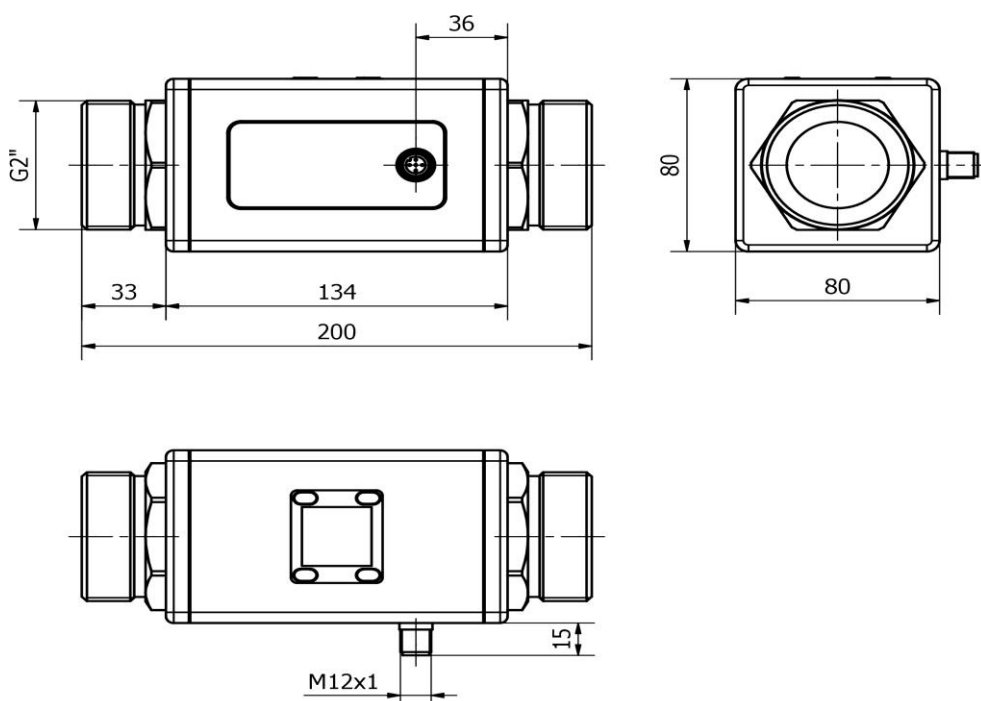
Elektrical connection



Configuration of the connections

Connection pin 4 (black)	Connection pin 2 (white)
Analog output 4-20mA	Analog output 4-20mA
Analog output 0-20mA	Analog output 0-20mA
Analog output 2-10V	Analog output 2-10V
Analog output gausgang 0-10V	Analog output 0-10V
Switching output NPN/PNP/PP	Switching output NPN/PNP/PP
Pulse output PP	Pulse output PP
Frequency output PP	Frequency output PP
Control input	
Control input dose function	

Dimensial drawing



	Connection	Inner diameter (DN)	Measuring range
SM950020	G 2"	38x17mm	1,5 ... 350 l/min
SM950021	G 2"	38x17mm	3,0 ... 650 l/min

SAFETY NOTES:

Before commissioning, please make sure that all safety instructions in the product documentation, if applicable, have been observed!

In case of direct impact on personal safety, the use of these products is prohibited.