Analog transmitter Signal 4.0

The position of a magnetic float / piston is detected by means of analog Hall-Sensors. The electronics provide an analog signal.

- Analog Output (4-20mA or 0-10 V)

Fon 0 67 32 - 91 91 20 Fax 0 67 32 - 96 24 42 info@schmidt-messtechnik.de

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Features
- Analog output (4-20 mA and 0-10 V)

Installation information
Refer also to the applicable data sheets and operating instructions for the flow monitor!
Download: www.schmidt-messtechnik.de

Application
- Use in combination with float-type sensors for various flow media (see table)
- Industry 4.0

Operation
The position of a magnetic float / piston is detected by means of Hall sensors and converted into an analog signal.

Possible combinations			
Medium	**Sensor type**	**Electronic**	**Combination**
Water	DUM	+ Signal 4.0	= DUM/Signal 4.0
	DWM	+ Signal 4.0	= DWM/Signal 4.0
	RVM/U-1	+ Signal 4.0	= RVM/U-1/Signal 4.0
	RVM/U-2	+ Signal 4.0	= RVM/U-2/Signal 4.0
	RVM/U-4	+ Signal 4.0	= RVM/U-4/Signal 4.0
	WY	+ Signal 4.0	= WY/Signal 4.0
Oil	DKM-1	+ Signal 4.0	= DKM-1/Signal 4.0
	DKM-2	+ Signal 4.0	= DKM-2/Signal 4.0
	DKME	+ Signal 4.0	= DKME/Signal 4.0
Air	DWM-L	+ Signal 4.0	= DWM-L/Signal 4.0
	RVM/U-L1	+ Signal 4.0	= RVM/U-L1/Signal 4.0
	RVM/U-L2	+ Signal 4.0	= RVM/U-2/Signal 4.0
	RVM/U-L4	+ Signal 4.0	= RVM/U-L4/Signal 4.0

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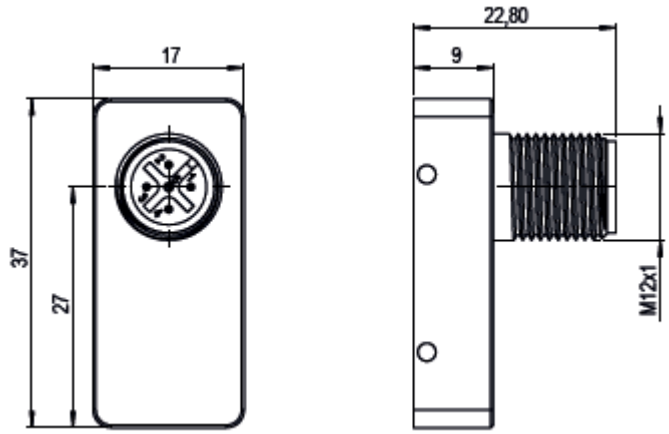
Technical Data	
Accuracy(1)	± 10 % of full scale
Operating temperature	-20°C - +70°C
Storage temperature	-20°C - +80°C

Werkstoffe
Nicht medienberührende Teile
Körper: Aluminium, blau eloxiert

(1)Higher calibration accuracy when calibrated individually. Available on request.

Technical Drawing



Connection Diagram

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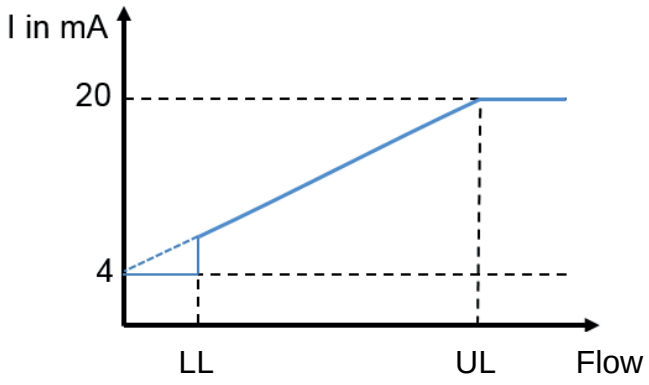
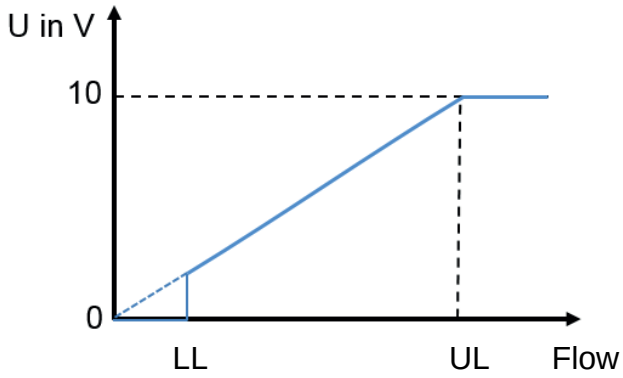
Current-flow characteristic



Voltage flow characteristic



LL: lower limit of measuring range
UL: upper limit of measuring range

Electrical Data	
Analog output	4-20 mA and 0-10 V
Power supply	24 VDC (19…30 VDC)
Power consumption	< 1 W
Current output	Max. load 600 Ω
Voltage output	Max. current 10 mA
Connection	For round plug M12x1, 5 pin
Ingress protection	IP 65, IP 67

Notes
Please note that the flowmeter and the SIGNAL 4.0 analog transmitter have been optimally adjusted to each other and may not be exchanged!
Please also refer to the data sheets and operating instructions of the respective flowmeter!