Analog Transmitter Monitor

The position of magnetic floats / pistons is detected by means of a Hall sensor and output as an analog signal.

- Analog output (4-20 mA or 0-10 V)
- 1 switching point (magnetic programming)
- Status LED
- Stainless steel case

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

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The position of magnetic floats / pistons is detected by means of a Hall sensor and output as an analog signal.

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

Application
Use in combination with float-type sensors for various flow media (see table on page 3)

Features
- Analog output (4-20 mA or 0-10 V)
- 1 Switch point (magnetically programmable)
- Status-LED
- Stainless steel body

Possible combinations			
Medium	**Sensor**	**Transmitter**	**Combination**
water	DUM	+ Monitor	= DUM/Monitor
	DWM	+ Monitor	= DWM/Monitor
	RVM/U-1	+ Monitor	= RVM/U-1/Monitor
	RVM/U-2	+ Monitor	= RVM/U-2/Monitor
	RVM/U-4	+ Monitor	= RVM/U-4/Monitor
oil	DKM-1	+ Monitor	= DKM-1/Monitor
	DKM-2	+ Monitor	= DKM-2/Monitor
	DKME	+ Monitor	= DKME/Monitor
air	DWM-L	+ Monitor	= DWM-L/Monitor
	RVM/U-L-1	+ Monitor	= RVM/U-L-1/Monitor
	RVM/U-L-2	+ Monitor	= RVM/U-L-2/Monitor
	RVM/U-L-4	+ Monitor	= RVM/U-L-4/Monitor

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

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Technical data	
Power supply	24 VDC (18...30 VDC)
Power consumption	< 1 W
Analog output	4...20 mA or 0...10 V (Please specify when ordering!)
Current output	Max. load 500 Ω
Voltage output	Max. current 10 mA
Switching output	1 short-circuit proof and reverse-polarity protected switching output Alarm: Low / Cable break: Low / OK: High Push-Pull-Output The output is self-configuring and can be connected as PNP- or NPN-switch. The switch contact is available as Min- or Max-contact (Please specify when ordering!)
Load	Max. 100 mA
Hysteresis (electronic)	The position of the hysteresis depends on the programming of the contact. Contact programmed as Min-switch: above / contact programmed as Max-switch: below
Hysteresis (mechanical)	Depending on the sensor
LED	Switching status LED (yellow) in the connector outlet LED on: switching output OK LED off: alarm LED flashes: programming of the switch point (teaching)
Switch point programming	”Teach-in” of the switch point with a calibration magnet (see operating instructions)
Connection	For round plug M 12 x 1, 4 pin
Ingress protection	IP 67

Notes

The sensor is configured to customer specifications. It is thus ready for immediate use without programming! Please note that the MONITOR-Electronics is calibrated to the flow sensor and can not be replaced without recalibration! For more information, please refer to the operating instruction for the analog transmitter MONITOR. Also refer to the data sheets and operating instructions of the respective flow sensor.

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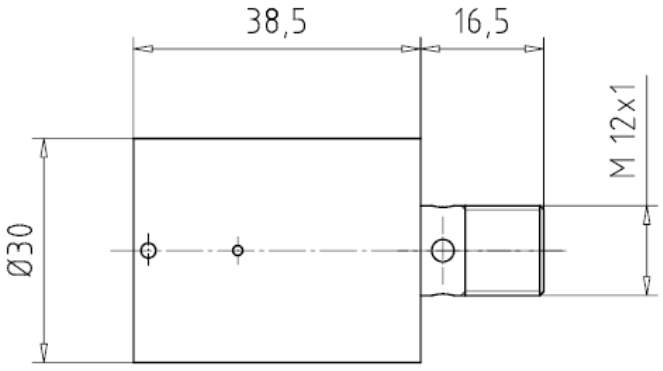
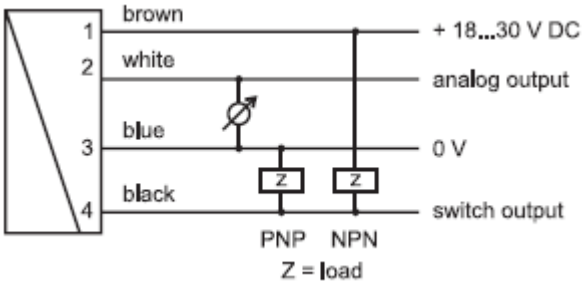
The position of magnetic floats / pistons is detected by means of a Hall sensor and output as an analog signal.

Technical data		
Accuracy	DUM, DWM, RVM/U-1, RVM/U-2 and RVM/U-4	± 3% of full scale
	DKM-1, DKM-2 and DKME	± 5% of full scale (with calibration at a specified viscosity)
	DKM-1, DKM-2, DKME	± 10% of full scale (viscosity compensated)
	DWM-L, RVM/U-L-1, RVM/U-L-2, RVM/U-L-4	± 10% of full scale
Repeatability	± 1% of full scale	
Operating temperature	-20°C…+70°C	
Storage temperature	-20°C…+80°C	
Material	Stainless steel version, non-wetted parts: Body: 1.4305	

Technical drawing



Connection diagram



Important instructions!
Technical changes and errors reserved.
Pictures can be similar.
The operating instructions belonging to this device must be observed! Download at www.schmidt-messtechnik.com.

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