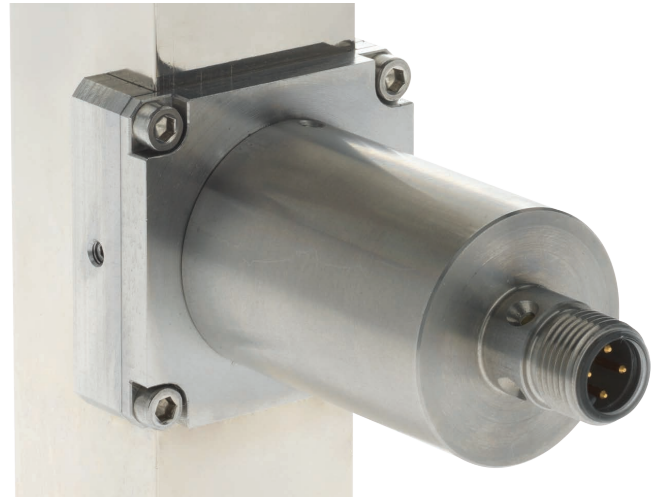


Analog Transmitter

MONITOR



OVERVIEW

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 2)

Features

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

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.meister-flow.com**

OPERATING 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 and DKME	± 10 % of full scale (viscosity compensated)
DWM-L, RVM/U-L1, RVM/U-L2 and RVM/U-L4	± 10 % of full scale
Operating temperature	-20 °C - 70 °C
Storage temperature	-20 °C - 80 °C
Repeatability	±1 % of full scale

POSSIBLE COMBINATIONS

Type

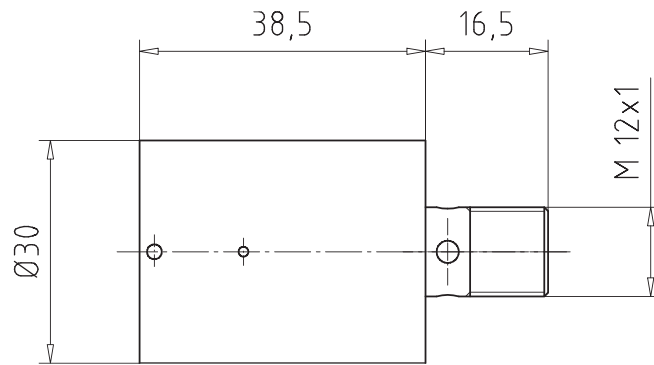
Sensor	Transmitter	Combination
DUM	+ MONITOR	= DUM/MONITOR
DWM	+ MONITOR	= DWM/MONITOR
RVM/U-1	+ MONITOR	= RVM/U-1/MONITOR
RVM/U-2	+ MONITOR	= RVM/U-2/MONITOR
RVM/U-4	+ MONITOR	= RVM/U-4/MONITOR
DKM-1	+ MONITOR	= DKM-1/MONITOR
DKM-2	+ MONITOR	= DKM-2/MONITOR
DKME	+ MONITOR	= DKME/MONITOR
DWM-L	+ MONITOR	= DWM-L/MONITOR
RVM/U-L1	+ MONITOR	= RVM/U-L1/MONITOR
RVM/U-L2	+ MONITOR	= RVM/U-L2/MONITOR
RVM/U-L4	+ MONITOR	= RVM/U-L4/MONITOR

MATERIALS

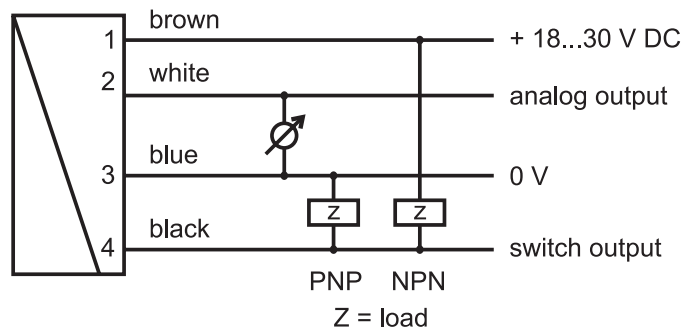
Stainless steel version, non-wetted parts

Body:	1.4305
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■ TECHNICAL DRAWING



■ CONNECTION DIAGRAM



ELECTRICAL 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.