

MASTERPIECES MADE IN GERMANY

### Analog Transmitter + Switch output

MONITOR 4.0







#### 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)
- Switch output (0/24 V, programmable via button press)
- Power-On- and Status-LED
- Stainless steel body

#### Installation information

- The operating instructions for MONITOR 4.0 must be observed!
- Refer also to the applicable data sheets and operating instructions of the flow sensor!
- Download: www.meister-flow.com

### OPERATING DATA

Accuracy:	$\pm 1 \%^{(1)}$
Operating temperature:	-20 °C - 70 °C
Storage temperature:	-20 °C - 70 °C

<sup>(1)</sup>The actual accuracy depends on the flow sensor used. On request the accuracy of the flow sensor used can be significantly increased by a customized calibration.

# ■ POSSIBLE COMBINATIONS\*

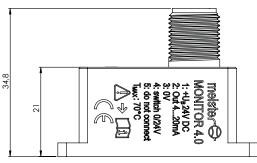
Sensor	Transmitter	Combination
DUM	+ MONITOR 4.0	= DUM/MONITOR 4.0
DUM/A	+ MONITOR 4.0	= DUM/A/MONITOR 4.0
DWM	+ MONITOR 4.0	= DWM/MONITOR 4.0
DWM/A	+ MONITOR 4.0	= DWM/A/MONITOR 4.0
RVM/U-1	+ MONITOR 4.0	= RVM/U-1/MONITOR 4.0
RVM/UA-1	+ MONITOR 4.0	= RVM/UA-1/MONITOR 4.0
RVM/U-2	+ MONITOR 4.0	= RVM/U-2/MONITOR 4.0
RVM/UA-2	+ MONITOR 4.0	= RVM/UA-2/MONITOR 4.0
RVM/U-4	+ MONITOR 4.0	= RVM/U-4/MONITOR 4.0
WY	+ MONITOR 4.0	= WY/MONITOR 4.0
DKM-1	+ MONITOR 4.0	= DKM-1/MONITOR 4.0
DKM/A-1	+ MONITOR 4.0	= DKM/A-1/MONITOR 4.0
DKM-2	+ MONITOR 4.0	= DKM-2/MONITOR 4.0
DKM/A-2	+ MONITOR 4.0	= DKM/A-2/MONITOR 4.0
DKME-1	+ MONITOR 4.0	= DKME-1/MONITOR 4.0
DKME/A-1	+ MONITOR 4.0	= DKME/A-1/MONITOR 4.0
DWM-L	+ MONITOR 4.0	= DWM-L/MONITOR 4.0
DWM/A-L	+ MONITOR 4.0	= DWM/A-L/MONITOR 4.0
RVM/U-L1	+ MONITOR 4.0	= RVM/U-L1/MONITOR 4.0
RVM/U-L2	+ MONITOR 4.0	= RVM/U-L2/MONITOR 4.0
RVM/U-L4	+ MONITOR 4.0	= RVM/U-L4/MONITOR 4.0

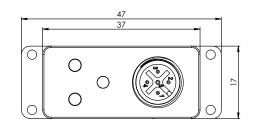
### MATERIALS

Stainless steel version, non-wetted parts		
Body:	1.4571	
Light guide:	Polycarbonate	
Button:	PDMS	

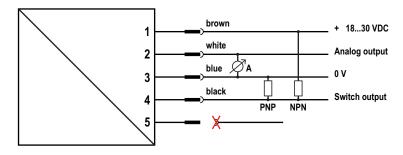
\* Further combinations are listed in the operating instructions.

### E TECHNICAL DRAWING





## CONNECTION DIAGRAM



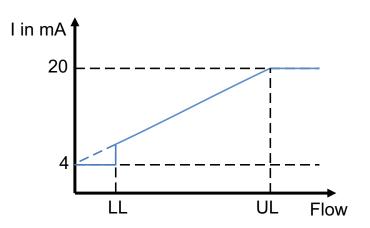
#### Attention:

Pin 5 must not be electrically connected! We strongly recommend use of a four core cable.

The SIGNAL 4.0 must not be removed from the basic unit. In case of a removal a loss of warranty is possible.



#### **Current-Flow characteristic**





#### Power supply

24 VDC (18...30 VDC)

Power consumption (without load)

< 1 W

#### Analog output

4...20 mA, max. load 500  $\Omega$ 

#### Switch output

Load: max. 100 mA

#### Hysteresis (electronic)

The switching hysteresis is about 0,8 mA.

#### Hysteresis (mechanical)

The hysteresis of the flow is about 5 % of the upper flow limit.

#### LED

LED "green" on: Power on LED "yellow" on: Flow present LED "yellow" off: No flow present LED "yellow" blinking: Teaching / programming of the switch-point

#### Switch point programming

"Teach-in" of the switch-off-point via button press (see operating instructions)

#### Connection

For round plug M 12 x 1, 5 pin, A-Coded

#### Ingress protection

IP 65/67

#### Notes

The analog transmitter is configured to customer specifications. It is thus ready for immediate use without programming. The switch output can be programmed via button press. Please refer to the operating instructions of the MONITOR 4.0.

Please note that the MONITOR 4.0-Electronics is calibrated to the flow sensor and cannot be replaced without recalibration!

For more information, please refer to the operating instructions for the analog transmitter MONITOR 4.0.

Also refer to the data sheets and operating instructions of the respective flow sensor!

