MASTERPIECES
MADE IN GERMANY

Analog Transmitter + Switch output

MONITOR 4.0

H2O OIL AIR

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

– Non-volatile switch-point storage (retained after power interruption)
– 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**

MONITOR 4.0 1 0003 01-26 E M

OPERATING DATA

Accuracy:	± 1 %[1]
Operating temperature:	-20 °C - 70 °C
Storage temperature:	-20 °C - 70 °C

[1] 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.

MATERIALS

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

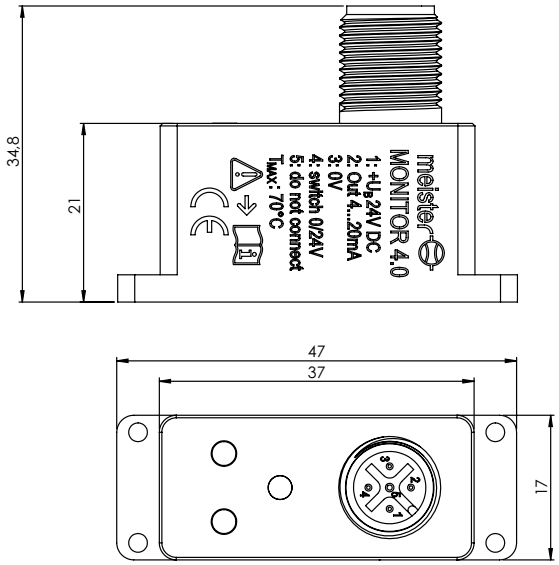
Aluminum version, non-wetted parts	
Body:	Aluminum, blue anodized
Light guide:	Polycarbonate
Button:	PDMS

POSSIBLE COMBINATIONS*

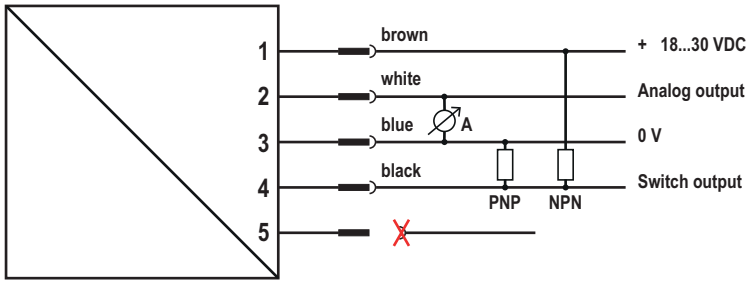
Sensor	Transmitter	Combination
DUM	+ MONITOR 4.0	= DUM/MONITOR 4.0
DUM/A	+ MONITOR 4.0	= DUM/A/MONITOR 4.0
DWM	+ MONITOR 4.0	= DWM/MONITOR 4.0
DWM/A	+ MONITOR 4.0	= DWM/A/MONITOR 4.0
RVM/U-1	+ MONITOR 4.0	= RVM/U-1/MONITOR 4.0
RVM/UA-1	+ MONITOR 4.0	= RVM/UA-1/MONITOR 4.0
RVM/U-2	+ MONITOR 4.0	= RVM/U-2/MONITOR 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

* Further combinations are listed in the operating instructions.

TECHNICAL DRAWING



CONNECTION DIAGRAM



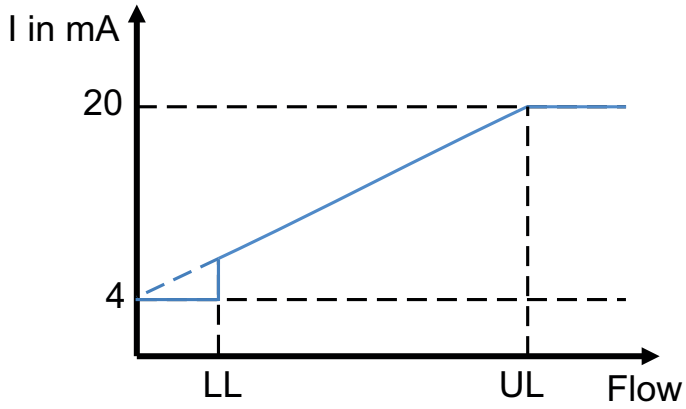
Attention:

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

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

CHARACTERISTICS

Current-Flow characteristic



LL: Lower limit of measuring range
UL: Upper limit of measuring range

ELECTRICAL DATA

Power supply

24 VDC (18...30 VDC)

Power consumption (without load)

< 1 W

Analog output

4...20 mA, max. load 500 Ω

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!

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