

Analog Transmitter

DISPLAY



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

- Backlit graphical Display (LCD)
- Analog output (4-20 mA)
- 2 switching points
- Programmable hysteresis
- Bright Signal-LED
- Simple programming
- Display cover made of hardened mineral glass
- Stainless steel body

Installation information

- The operating instructions for DISPLAY 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

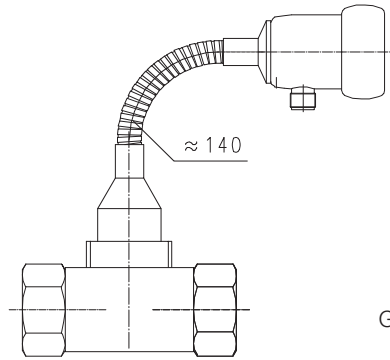
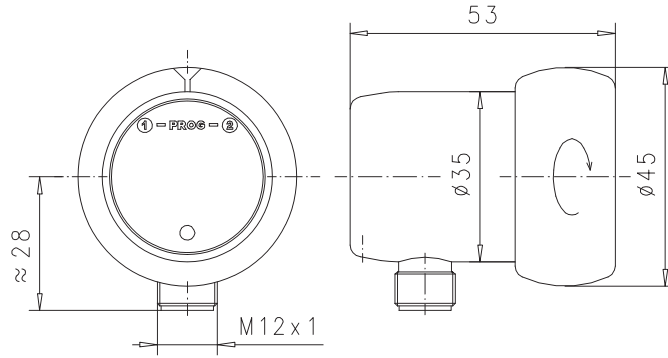
Sensor	Transmitter	Combination
DUM	+ DISPLAY	= DUM/DISPLAY
DWM	+ DISPLAY	= DWM/DISPLAY
RVM/U-1	+ DISPLAY	= RVM/U-1/DISPLAY
RVM/U-2	+ DISPLAY	= RVM/U-2/DISPLAY
RVM/U-4	+ DISPLAY	= RVM/U-4/DISPLAY
DKM-1	+ DISPLAY	= DKM-1/DISPLAY
DKM-2	+ DISPLAY	= DKM-2/DISPLAY
DKME	+ DISPLAY	= DKME/DISPLAY
DWM-L	+ DISPLAY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

MATERIALS

Stainless steel version, non-wetted parts

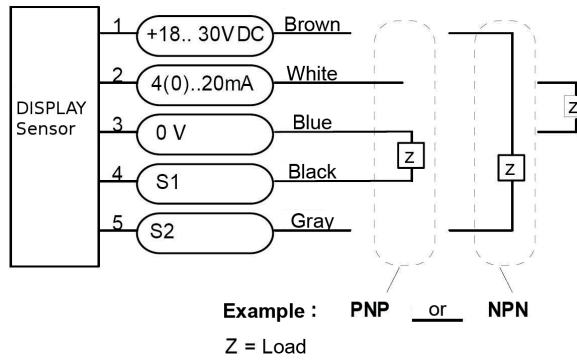
Body:	1.4305
Glass:	Hardened mineral crystal
Magnet:	Cobalt Samarium
Programming ring:	POM

TECHNICAL DRAWING



Gooseneck-Version

CONNECTION DIAGRAM



ELECTRICAL DATA

Operating Voltage

24 VDC (18...30 VDC)

Power consumption

< 1 W

Display

Backlit transreflective LCD (32 x 16 Pixels)
(Good readability in low light and in direct sunlight)
Indication of value and dimension (unit selectable)
Rotatable reading position (mechanical block limits the total range (< 360°))

Analog output

Current output (standard)

4(0)...20 mA (programmable)

Max. load 500 Ω

Voltage output (Please specify when ordering!)

2(0)...10 V

Max. current 10 mA

LED

Signal-LED (red)
signals a message on the display, e.g. a switch alarm (when the flow rate falls below or exceeds a limit value) or an error message

Switch output

2 short-circuit proof and reverse-polarity protected switch outputs

Alarm: Low / Cable break: Low / OK: High

Push-pull-outputs

The outputs are self-configuring and can be connected as PNP or NPN switch.

The switch contacts can be programmed as Min- or Max-contacts.

Load

Load in total max. 300 mA

Hysteresis

Selectable (adjustable) in magnitude and direction

Programming

Programming by means of a programming ring (see operating instructions)

Programmable features e.g.: hysteresis, span

Programming protection by turning through 180° or by removing the programming ring

Connection

For round plug M 12 x 1, 5 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 DISPLAY-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 DISYPLAY.
Also refer to the data sheets and operating instructions of the respective flow sensor.