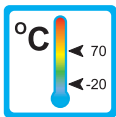


Analog transmitter

DISPLAY



Range of Applications

Operation

- The position of a magnetic float / piston is detected by means of analog Hall-Sensors. The electronics provides an analog signal.

Application

- Use in combination with flow sensors (with float / piston) for different flow media (see table at right).




Features

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

Installation information

- The operating instruction for the analog transmitter DISPLAY must be observed!
- Download: www.meister-flow.com

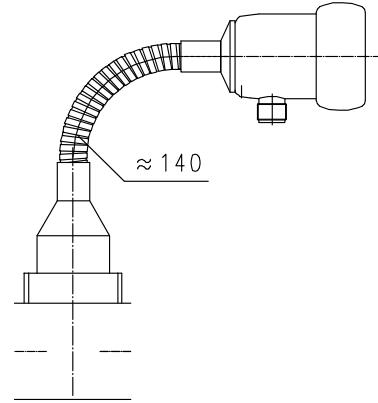
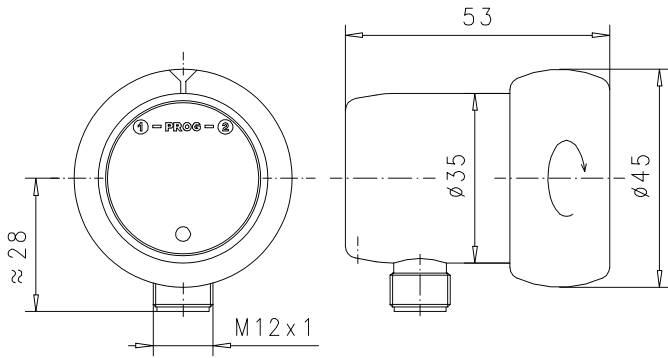
Possible Applications / Combinations

Medium	Sensor	Electronics	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-L-1	+ DISPLAY	= RVM/U-L-1/DISPLAY
	RVM/U-L-2	+ DISPLAY	= RVM/U-L-2/DISPLAY
	RVM/U-L-4	+ DISPLAY	= RVM/U-L-4/DISPLAY



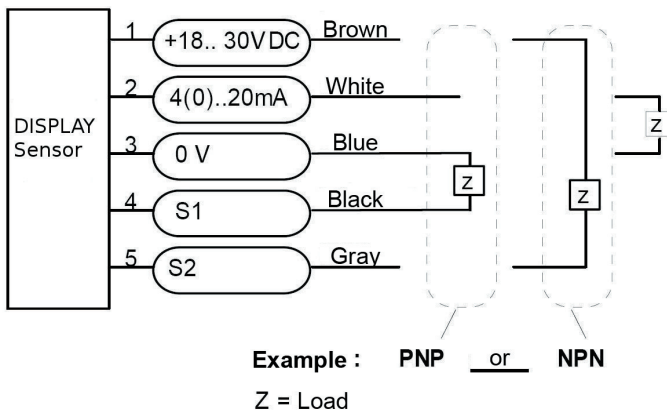
Technical data

Mechanical drawing



Gooseneck-Version

Connection diagram



Technical data

Technical data

Display

Backlit transreflective LCD (32 x 16 Pixels)
(Good readability in low light and in direct sunlight)

Indication of value and dimension (unit selectable)

Turnable reading position (mechanical block limits the total range (< 360°))

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

Analog output

Current output (standard) 4(0)...20 mA (programmable)

Max. load 500 Ω

Voltage output 2(0)...10 V
(Please specify when ordering!)

Max. current 10 mA

The programmable span allows the optimum adaptation to the respective application.

Switch output

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

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

Type 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 instruction)
Programmable features e.g.: hysteresis, span

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



Technical data

Technical Data

Operating Voltage	24 V (18...30 V)
Power consumption	< 1 W
Connection	For round plug M 12 x 1, 5 pin
Ingress protection	IP 67
Accuracy	DUM, DWM, RVM/U-1, RVM/U-2 and RVM/U-4 ± 3 % of full scale deflection DKM-1, DKM-2 and DKME ± 5 % of full scale deflection (with calibration at a specified viscosity) DKM-1, DKM-2 and DKME ± 10 % of full scale deflection (viscosity compensated) DWM-L, RVM/U-L1, RVM/U-L2 and RVM/U-L4 ± 10 % of full scale deflection
Repeatability	±1 % of full scale deflection
Operating temperature	- 20 °C - + 70 °C
Storage temperature	- 20 °C - + 80 °C
Material	
Body	Stainless steel 1.4305
Glass	Hardened mineral crystal
Magnet	Cobalt Samarium
Programming ring	POM

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.

DISPLAY 4 0004 10-13 E M

