



Type SMP

modular @ level

Modular continuous fill level measuring

Basic features

- ▶ Particularly suitable for the fill level measuring in small-sized blending tanks with viscous, paste-like and highly adhesive media
- ▶ Application in all electrically conductive media with a minimum conductivity of $50\mu\text{S}/\text{cm}$
- ▶ Automatic detection of the fitting position fitting position top/bottom
- ▶ Device completely made of high-grade steel 1.4404
- ▶ Compact design with integrated evaluation Circuit 4...20mA
- ▶ FDA, EHEDG-conformal

Technical features

- ▶ Potentiometric measuring principle
- ▶ Probe completely made of high-grade steel
- ▶ Temperature range $-20\text{...}140^\circ\text{C}$
- ▶ 2 keys for calibration position 4mA, 20mA
- ▶ Level monitor 0...100% via flasher switch of 2 LEDs
- ▶ Working pressure 10bar max
- ▶ Measuring ranges from 100 mm to 2500mm
- ▶ For standard lengths see order code

Design and mode of operation

The fill level probe SMP represents an extension of our well-tried fill level measuring technology of the modular design.

It is available in the following versions:

- modular, aseptic G1" process connection with polymer-free Sealing system



Examples of modular process connections



Varivent

Triclamp

Milk-pipe

More details in data sheet process connections

modular @ process

Accessories



Altitude Compensation-Element
(High-Grade-Steel)
DAE-E

Favoured fields of application are:

- ▶ Continuous fill level measuring in metallic containers, presettling tanks or pressurised tanks with a measuring range of up to 2500 mm max.



Technical data

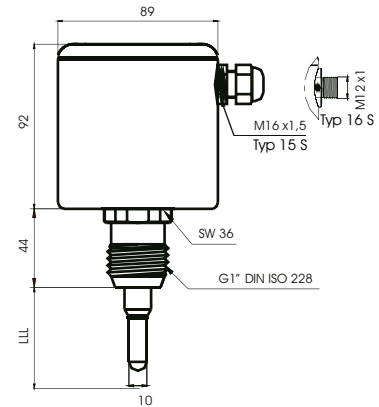
Process connection
Thread connecting peace G1";
1.4404/ 316L

Material of the sensor
High grade steel 1.4404/ 316L;
Ø 10 mm

Safety class
IP 67

Output signal
Output: 4...20 mA
18...36 VDC; 200 mA max

Dimension drawing



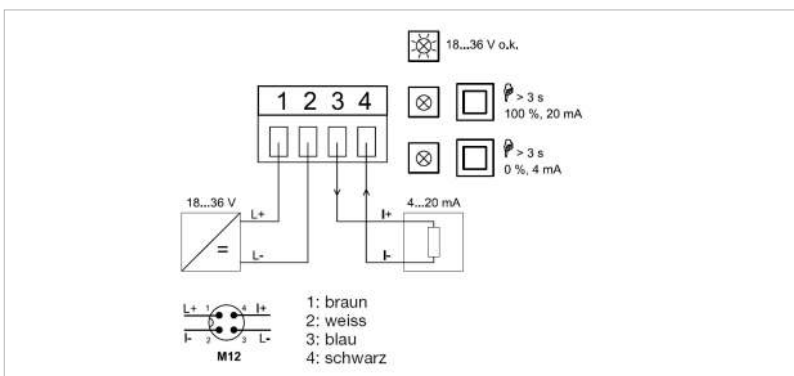
Signal behaviour
Accuracy $\leq \pm 0,5 \%$ incl. Hysteresis and reproducibility
Adm. Burden 500 Ohm max.

Electrical connections
- Cable gland M16
- Plug M12

Length of electrode
Standard: 200 mm up to 1500 mm
Option: Special length up to 2500 mm on request

Temperature operating range
Duration process temp.: -20... 140°C
Ambient temperature.: -20... 60°C

Dimension drawing



Order Code

SMP - [] - S - [] [] [] []

Type of connecting head					
Cable gland M16		1	5		
Plug M12		1	6		
Version				S	
Probe length		mm			
	200	0	2	0	0
	300	0	3	0	0
	400	0	4	0	0
	500	0	5	0	0
	600	0	6	0	0
	700	0	7	0	0
	800	0	8	0	0
	900	0	9	0	0
	1000	1	0	0	0
	1100	1	1	0	0
	1200	1	2	0	0
	1300	1	3	0	0
	1400	1	4	0	0
	1500	1	5	0	0
	2000	2	0	0	0
Customer wish up to 2500 mm max.					K