



Fill level measurement



Conductive rod probe: SAT

Electrode probe for conductive limit level detection in electrically conductive filling materials with up to 7

electrode rods – plastic screwing thread; up to 6 measuring points; temperature: -40°C...+150°C; pressure: 10 bar

Description

The SAT rod probes are used in conjunction with the evaluation units (eg, SRA-100-U0) is used for level detection and level control in conductive liquids.

Depending on the number of bars and evaluation devices used, different measurement tasks such as Overflow, dry run, two-step control, moisture detection, etc. are realized.

Depending on model selected can include the container wall as a mass, to be implemented to 7 switch points. The ground connection erfolgt either directly to the container or conducting a probe rod.

In the probe head, an additional module (diode module LBM) for permanent circuit monitoring to be installed.

In the case of a line break between the electrode probe and an appropriate evaluation, the evaluation issue an alert.

Application

- Level detection in conductive liquids
- Up to seven limit levels simultaneously detectable
- As leakage or overflow protection in containers
- For minimum / maximum / resp. multi-point-detection in containers
- As pump protection, resp. dry run protection in pipelines
- For two-point control of pumps
- For conductivities from 1 µS/ cm
- For process temperatures from -15 ° C up to +150 ° C
- For process pressures from -1 bar up to +10 bar
- Material also for corrosive and aggressive products
- ATEX II 1G Ex ia IIB / IIC T6 ... T1 Ga
- Approved for use in hazardous areas
- Integrated line break monitoring

Your benefits

- Suitable for *aggressive media* due to the use of special material such as. Hastelloy; PTFE; ETFE resp. E-CTFE etc.
- High-quality, coated probe insulation
- *No infiltration by liquids possible*
- Simple switching point adjustment by probe rods that can be shortened

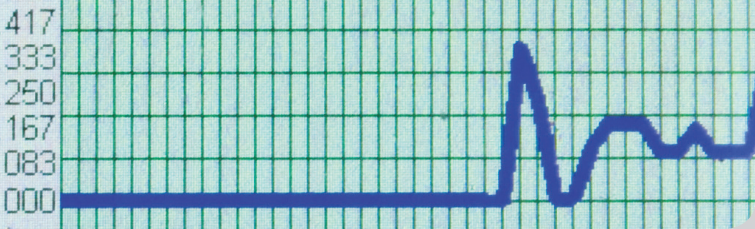
Technical data

Technische Daten	
Process pressure:	-1...10 bar
Process temperature:	-40°C...+150°C, observe limitations (see operating instructions)
Protection classification:	IP65 EN/IEC 60529
Material Process connection:	POM / PP / PTFE
Material Electrode rod:	Stahl 1.4404 (AISI316L) bzw. 1.4571 (AISI316Ti) / Hastelloy C22
Isolation Electrode rod isolation:	PA / ETFE resp. E-CTFE
Gaskets (medium contact)	Electrode isolation PA: NBR / Electrode isolation ETFE resp. E-CTFE: FPM

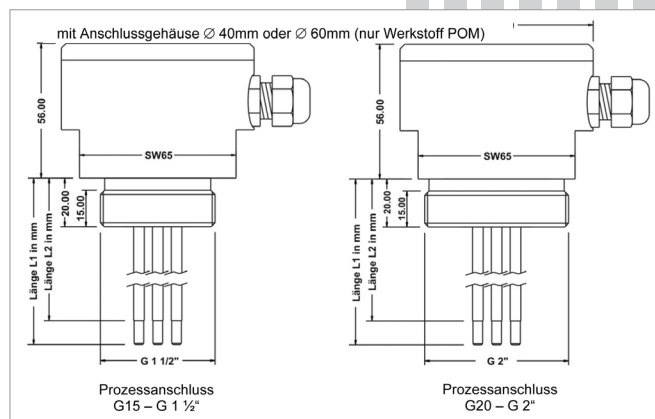
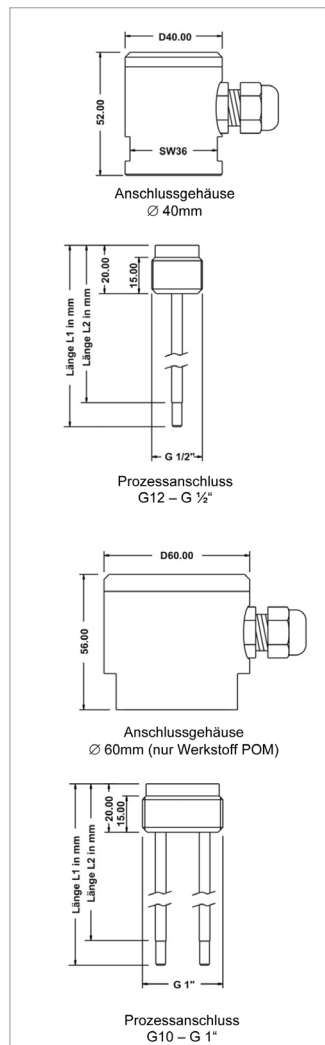


Specials





Bestellschlüssel



Order code

SAT

mm

mm

Equipment

Order information

AH-2
AH-3
AH-4
AH-5

Model

Spacers for 2-rod probes
Spacers for 3-rod probes
Spacers for 4-rod probes
Spacers for 5-rod probes

Model

0 Standard
Ex ATEX II 1 G Ex ia IIB/IIC T6...T1 Ga

Electrode rods

1 1 electrode rod
2 2 electrode rods
3 3 electrode rods
4 4 electrode rods
5 5 electrode rods
7 7 electrode rods

Process connection

G12 Thread ISO 228-1 - G $\frac{1}{2}$ " only with one electrode rod possible
G10 Thread ISO 228-1 - G1" up to three electrode rods possible
G15 Thread ISO 228-1 - G $\frac{1}{2}$ " up to five electrode rods possible
G20 Thread ISO 228-1 - G2" up to seven electrode rods possible

Material probe rod

(price per 100mm)

A4 CrNi-steel, rod diameter 4mm
A8 CrNi-steel, rod diameter 8mm
D Hastelloy® C22, rod diameter 4mm
Y Others

Material Connection housing

D POM - polyoxymethylene Delrin®,
Ø 40 mm for G $\frac{1}{2}$ " / G1" resp. Ø 80 mm for G1 $\frac{1}{2}$ " / G2"
E POM - polyoxymethylene Delrin®, Ø 60 mm for G $\frac{1}{2}$ " / G1"
P PP - polypropylene, Ø 40 mm for G $\frac{1}{2}$ " / G1"
M PP - polypropylene, Ø 80 mm for G1 $\frac{1}{2}$ " / G2"
T PTFE - Polytetrafluoroethylene Teflon®, Ø 40 mm for G $\frac{1}{2}$ " / G1"
L PTFE - Polytetrafluoroethylene Teflon®, Ø 80 mm for G1 $\frac{1}{2}$ " / G2"

Material probe insulation

(price per 100mm)

R PA - Polyamid (standard), not for material process connection T / L - PTFE
H4 E-CTFE - Ethylene-chlorotrifluoroethylene (Halar®) 4mm
H8 E-CTFE - Ethylene-chlorotrifluoroethylene (Halar®) 8mm

Circuit monitoring

A Without circuit monitoring
B Diode module LBM only for terminal enclosure Ø 60mm
(only at head Ø ≥ 60 mm, resp. thread ≥ 1 $\frac{1}{2}$ ")

Diameter probe rod

0 4 mm (L1 max. 2000mm)
W 8 mm 8 mm (L1 max. 3000mm)

Length L1 probe rod in mm - up to max. 2500 mm

Length L2 insulation mm

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