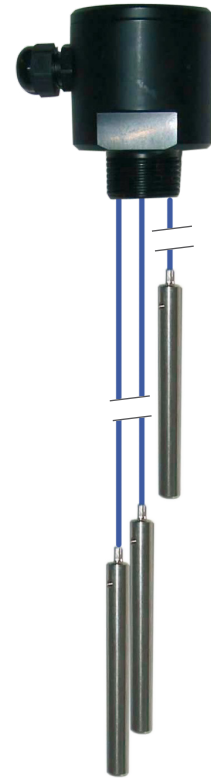


Electrode probe SST

Rope probe for conductive limit level detection
in electrical conductive liquids

Data sheet 06.24



Application

- Level detection in conductive liquids
- Full resp. empty signal
- Overflow safety
- Dry run protection

Main features

- Suitable for aggressive media due to the use of stainless steel and PTF
- Up to 7 switching points realizable
- Easy installation
- Up to 15 m probe length possible

Description

The device is a conductive filling level sensor for limit value detection in

electrically conductive liquid media.

With up to seven contact electrodes, several tasks can be carried out at the same time.

This includes:

- leakage or overflow protection
- minimum / maximum protection
- multilevel detection
- pump protection, resp. dry run protection in pipelines
- two-position-control of pumps

The alternating voltage generated by a suitable evaluation device is present between the electrode ropes.

As soon as the electrically conductive filling material forms a connection between the electrodes, a measurable current flows, which causes the connected evaluation device to react.

By using an alternating voltage, corrosion on the electrode and electrolytic decomposition of the filling material are avoided.

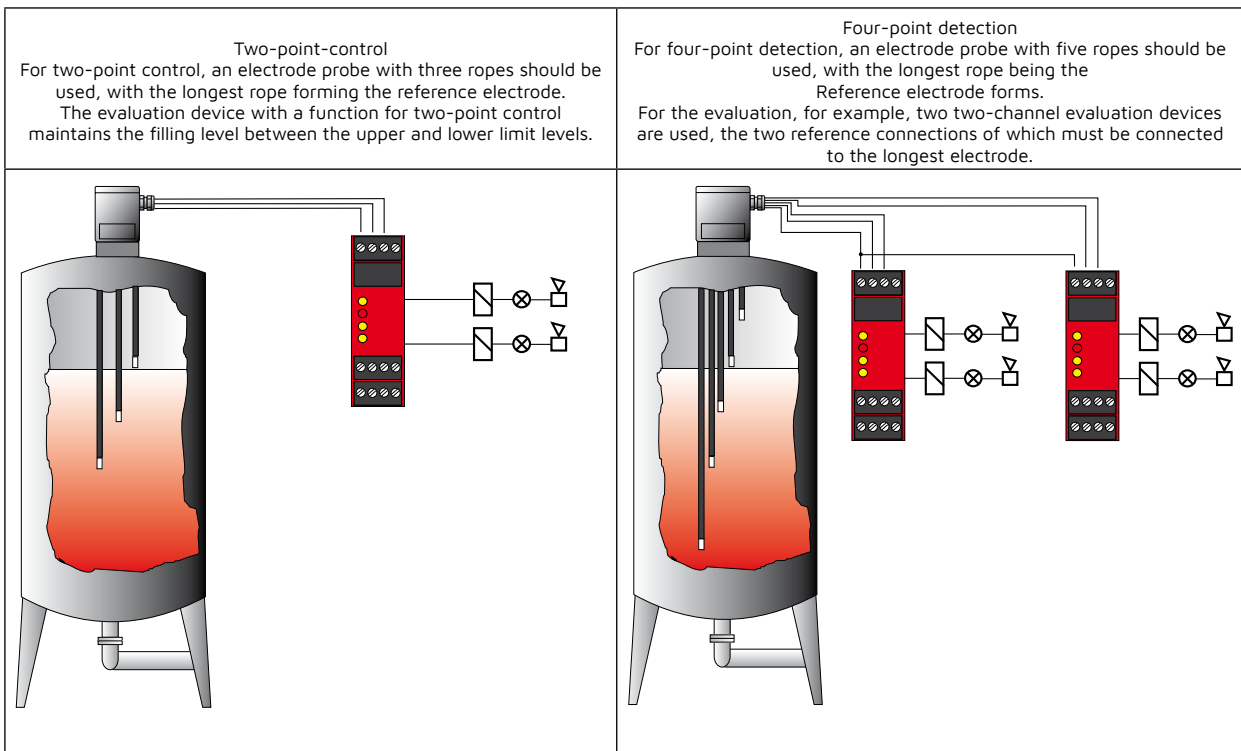
For the electrode probes, an additional module (diode module LBM) can be installed in the housing for line monitoring. In the event of a line break between the electrode probe and a suitable evaluation device, the evaluation device can issue a corresponding warning message.



Technical Data

Process pressure max:	Pressureless operation
Medium temperature:	-10°C...120°C
Material connection housing:	POM / PP / PTFE
Material process connection:	POM / PP / PTFE
Material probe rope:	Steel 1.4404 (AISI316L) resp. 1.4571 (AISI316Ti)
Isolation probe rope:	PTFE
Gaskets:	Medium contact : NBR; Others: NBR, FPM

Electrical connection



Dimensions (mm)

<p>Thread ISO 228-1 – G1/2" [03-G12] 1 Electrode rope [02-1]</p>	<p>Thread ISO 228-1 – G3/4" [03-G34] 1 Electrode rope [02-1]</p>
<p>Process pressure P_{max} = pressureless Torque M_{max} = 50Nm</p>	<p>Prozessdruck P_{max} = pressureless Torque M_{max} = 50Nm</p>

<p>Thread ISO 228-1 – G1" [03-G10] 2 Electrode ropes [02-2]</p>	
<p>Process pressure P_{max} = pressureless Torque M_{max} = 50Nm</p>	

Further dimensional drawings can be found in the operating instructions or in the technical information.

Order code

0 **Type**
Standard

Number of electrodes

- 1 1 Electrode rope
- 2 2 Electrode ropes
- 3 3 Electrode ropes
- 4 4 Electrode ropes
- 5 5 Electrode ropes
- 6 6 Electrode ropes
- 7 7 Electrode ropes

Process connection

- G12 Thread ISO 228-1 – G½", (1x Electrode rope)
- G34 Thread ISO 228-1 – G¾", (1x / 2x Electrode rope)
- G10 Thread ISO 228-1 – G1", (1x ... 3x Electrode rope)
- G15 Thread ISO 228-1 – G1 ½", (1x ... 4x Electrode rope)
- G20 Thread ISO 228-1 – G2", (1x ... 7x Electrode rope)

Material electrode rope

V CrNi-steel

Material process connection

- E POM / D60mm - Process connection G ½" / G ¾" / G 1"
- D POM / D80mm - Process connection G 1½" / G 2"
- P PP / D60mm - Process connection G ½" / G ¾" / G 1"
- M PP / D80mm - Process connection G 1½" / G 2"
- T PTFE / D60mm - Process connection G ½" / G ¾" / G 1"
- L PTFE / D80mm - Process connection G 1½" / G 2"

Material electrode insulation

H ETFE

Electronic - Line break

- A without
- B Diode module LBM

Length L1 mm (≤ 15.000mm)

SST