



Sensor with Analogue Outputs Level and Temperature RLT3000-TN200

Stainless steel sensor with combined analogue outputs 4-20 mA for level and temperature



- Combination Level Transmitter / PT100 / PT1000
- Temperature range: -30 ° C to max. + 150 ° C
- Electrical output: 4-20 mA (level) and 4-20 mA (temperature)
- Process connection: G 1½ ", G 2", flange DN50 PN16
- Protection class: IP 66

D-EN-RLS3000-TN200-20190812



Sensor with Analogue Outputs Level and Temperature RLT3000-TN200

Stainless steel sensor with combined analogue outputs 4-20 mA for level and temperature

Description

The model RLS3000-TN200 float switch with temperature output combines the recording of the level and temperature of liquids in a single measuring point. The stainless steel used is suitable for a multitude of media, such as, for example, oil, water, diesel and refrigerants.

Measuring principle

A permanent magnet built into the float triggers, with its magnetic field, the potential-free reed contacts built into the guide tube. The triggering of the reed contacts by the permanent magnet is contact-free and thus free from wear.

Depending on customer wishes, the switching functions of normally open, normally closed or change-over can be realized for the defined liquid level.

The additional temperature output enables the medium temperature to be monitored by means of a Pt100/Pt1000 resistance signal.

Features

- Electrical output 4-20 mA level and temperature
- Material: stainless steel 1.4571
- Easy installation
- Maintenance free
- Vertical installation
- Electrical connection: housing
- Temperature range: -30°C to +100°C
- Protection class: IP 66

Application

For liquids such as oils, water, diesel, aqueous media, etc.

- Plant construction
- Mechanical engineering
- Process and process engineering
- Shipbuilding
- Power plants
- Turbines
- Aggregate construction, etc.

Important instructions!

Technical changes and errors reserved.

Pictures can be similar.

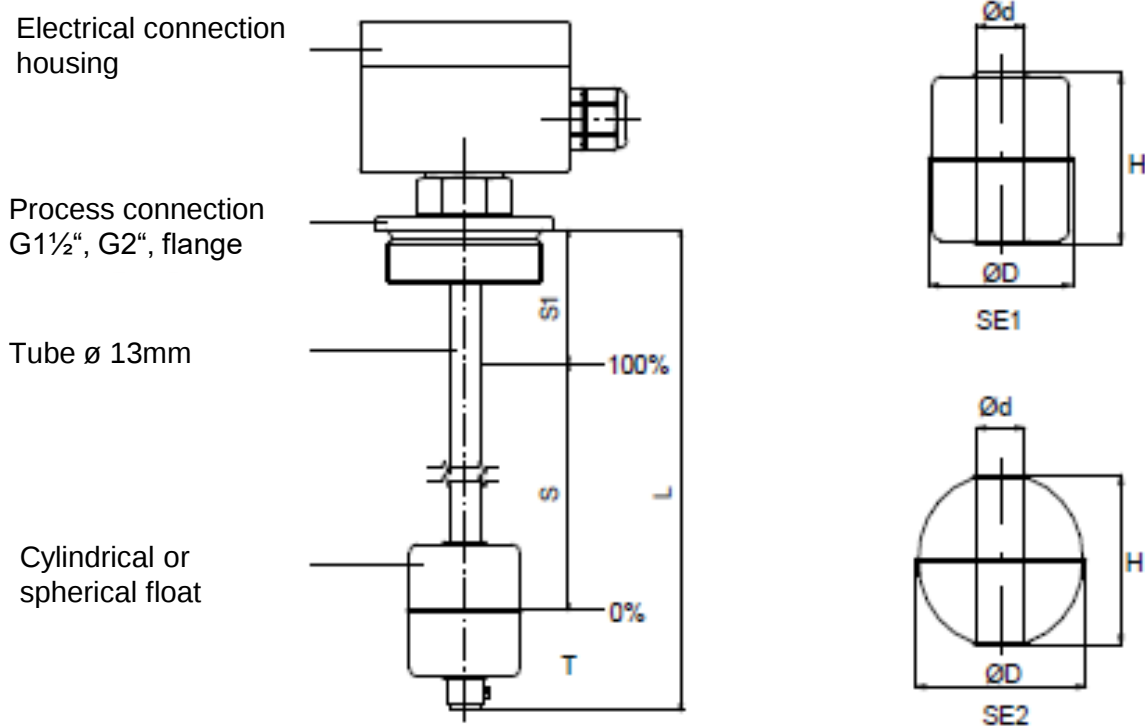
The operating instructions belonging to this device must be observed! Download at www.schmidt-messtechnik.com.



Sensor with Analogue Outputs Level and Temperature RLT3000-TN200

Stainless steel sensor with combined analogue outputs 4-20 mA for level and temperature

Dimensions



T = dead range approx. 40 mm

Float type	Dimensions			Max. operational pressure (MPa)	Max. operational temperature (°C)	Medium density kg/m³	Material
	Ø D (mm)	Ø d (mm)	H (mm)				
SE3 Cylindrical float	44	15	52	1,6	100	≥750	1.4571
SE4 Spherical float	52	15	52	4,0	100	≥750	1.4571

D-EN-RLS3000-TN200-20190812



Sensor with Analogue Outputs Level and Temperature RLT3000-TN200

Stainless steel sensor with combined analogue outputs 4-20 mA for level and temperature

Technical data	
Supply voltage	12 – 32 V DC
Output level	4-20 mA (two-wire circuit)
Output temperature	4-20 mA (two-wire circuit)
Max. pressure	4,0 MPa
Medium temperature	-30°C to +100°C, higher temperatures on request
Medium density	$\geq 750 \text{ kg/m}^3$
Accuracy level	12 mm
Accuracy temperature	0,5% of measuring range
	DIN IEC 751
Housing	Aluminum 75 x 80 x 57 mm
	Polycarbonate 80 x 82 x 55 mm
Process connection	Standard: G1½“, G2“, Flange DN50 PN16, Other versions on request
Length of tube L	Standard: up to 6000 mm, >6000 mm on request
Electrical connection	

Ordering information

Type / output signals for level and temperature / process connection / sliding tube length L / 100 % tag (optional) / accuracy, resolution

D-EN-RLS3000-TN200-20190812