



Combination Level Probe RLT3000-TN220 with integrated PT100

Level transmitter with analog output 4-20 mA and integrated temperature switch, made of stainless steel 1.4571



- Combination level transmitter / thermoswitch
- Temperature range: -30 °C to max. + 150 °C
- Electrical output: 4-20 mA level and switching contact temperature
- Process connections: G 1½ ", G 2", flange DN50 PN16
- Protection class: IP 66

D-EN-RLS3000-TN220-20190903



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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.

Features

- Output 4-20 mA level
- Temperature measuring element: thermal switch
- Easy installation
- Maintenance-free
- Vertical installation
- Electrical connection: housing
- Temperature range: -30 °C to + 100 °C
- Protection class: IP 66

Principle of operation

Level: Due to its magnetic field, a permanent magnet installed in the float actuates the resistance measuring chain built into the pipe, which corresponds to a three-wire potentiometer circuit. The resistance signal generated thereby is proportional to the level height. The signal is transmitted by a transmitter, which is integrated in the housing. The measuring element of the temperature switch is a thermocouple.

Important instructions!

Technical changes and errors reserved.

Pictures can be similar.

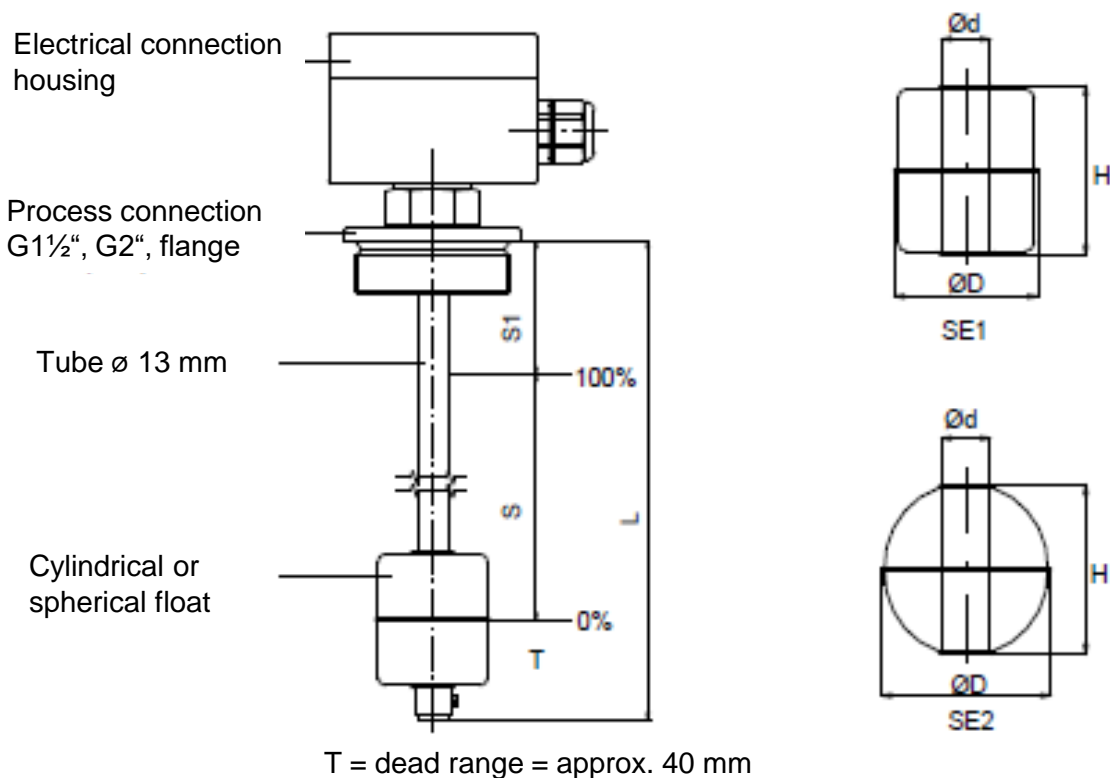
The operating instructions belonging to this device must be observed! Download at www.schmidt-messtechnik.com.



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Dimensions



Float type	Dimensions			Max. operational pressure (MPa)	Max. operational temperature (°C)	Medium density kg/m ³	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

Ordering information:

Type / output signal for temperature / measurement range temperature / Process connection / length of sliding tube L / 100 % mark (optional) / accuracy, resolution

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Level output analog 4-20 mA	
Supply voltage	12 – 32 V DC
Output level	4-20 mA (two wire)
Accuracy	12 mm
Temperature switch points	
Switching capacity	2050 V AC 2,5 A; 60 V DC 1 A; (min. 50 mA)
Switching function	Normally open or normally closed contact
Measuring element	Thermo switch
Temperature range	+50°C to +100°C, selectable in 5°C increments
Switching accuracy	±5°C
Switching hysteresis	±20°C
Technical data	
Mounting position	vertical, ±30°
Medium density	≥750 kg/m ³
Medium temperature	-30°C to +100°C
Housing	Aluminum 75 x 80 x 57 mm Polycarbonate 80 x 82 x 55 mm
Protection class	IP 66
Max. pressure	4,0 MPa
Length of tube L	Standard: up to 6000 mm, >6000 mm on request
Process connection	Standard: G1½", G2", Flange DN50 PN16, Other versions on request
Electrical connection	

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