Filling level probe Type NS6123-6

for measuring filling level of water and gasoil
0 - 250 mbar, integrated measuring transducer

NS6123-6

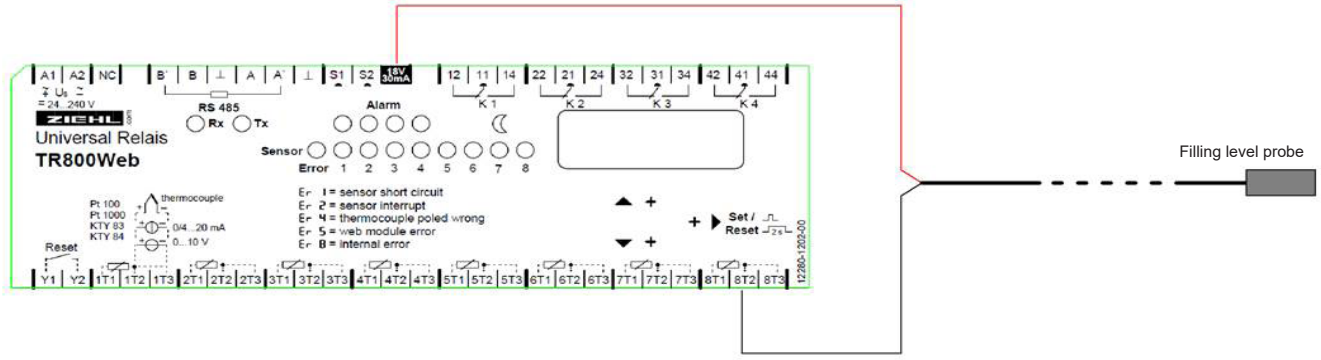
Part number: **V223470**

Economy-priced probe with integrated measuring transducer for measuring filling level e.g. in tanks, cisterns or waters.
Connection to ZIEHL-Web-Relay TR800Web for monitoring and logging of filling levels. Alarms by emails when levels are reached, e.g. before tank is empty.
Monitoring and display of levels with Digital Panelmeters MINIPAN 352 or other devices with input 4-20 mA.
The probe for relative pressure is submersible. It is placed at the bottom of the tank and determines the level by measuring the hydrostatic pressure. The result is transmitted via signal 4-20 mA (2 wire).
The cable (PUR) includes a pressure compensation capillary that compensates fluctuation of atmospheric pressure.

Applications:
- Gasoil, diesel, used oil
- Engine oil and lube oil (fresh)
- Rainwater in cisterns, basins and water levels in general

Standard probe NS6123-6
0-250 mbar, cable 6 m

Connection to Universal Web-Relay Type TR800Web



Scaling of TR800Web for water:

Sensor-Einstellungen

Nr.	Sensor-Name	aktueller Messwert	Sensortyp	Leitungs-Kompensation	Skalierung ein	Nullpunkt	Fullscale	Dez. Punkt	Einheit
1.	Pegelsonde	25.3 cm	4..20 mA	3-Leiter	☑	0	2500	xxx . x	cm

Water (density 1,0): 1 mbar = 1 cm
0...250 mbar correspond to level 250.0 cm

Scaling of TR800Web for oil:

Sensor-Einstellungen

Nr.	Sensor-Name	aktueller Messwert	Sensortyp	Leitungs-Kompensation	Skalierung ein	Nullpunkt	Fullscale	Dez. Punkt	Einheit
1.	Pegelsonde	25.3 cm	4..20 mA	3-Leiter	☑	0	2900	xxx . x	cm

Oil (density 0,82...0,95): 1 mbar = 1/density cm
Example density 0,862: 1 mbar = 1,160 cm
0...250 mbar correspond to level 0,0...290 cm
Density of liquid can be calculated by using signal of probe and measuring depth of immersion with a meter stick.

Technical Data

Input	0...250 mbar (0...250 cm water; 0...~290 cm oil)
Output	4...20 mA, 2-wire
Supply voltage	10...30 V DC direct connection to TR800Web
Measuring cell	ceramic Al_2O_3, DMS bridge
Response time	50 ms
Error	< 1% of FullScale
Thermal drift	< 0,05% /K of span
Ambient temperature	-10...+40 °C
Housing	stainless steel 1.4404 (316 L, V4A)
Weight of probe	ca. 0,2 kg, without cable
Cable	PUR black, oil proofen with pressure compensation capillary
Applications	Gasoil, diesel, water not for petrol, kerosine not for use in zone EEx

Drawing