

OILER

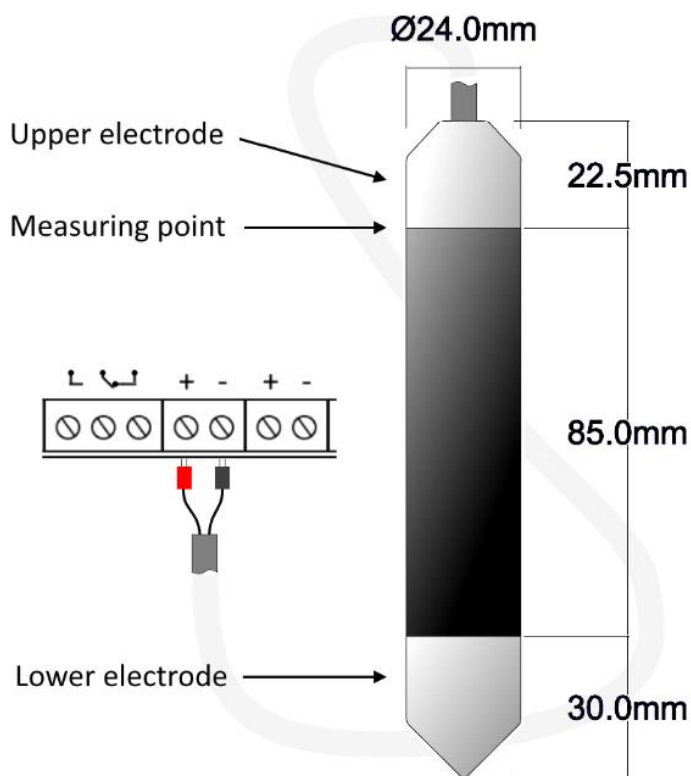
– the probe is used in oil or petroleum substances separators. OILER probe is dedicated to measuring the thickness of the substance being measured. It is ATEX certified and can be installed in explosion hazard areas “0” of gas, steam and dust.

Device construction

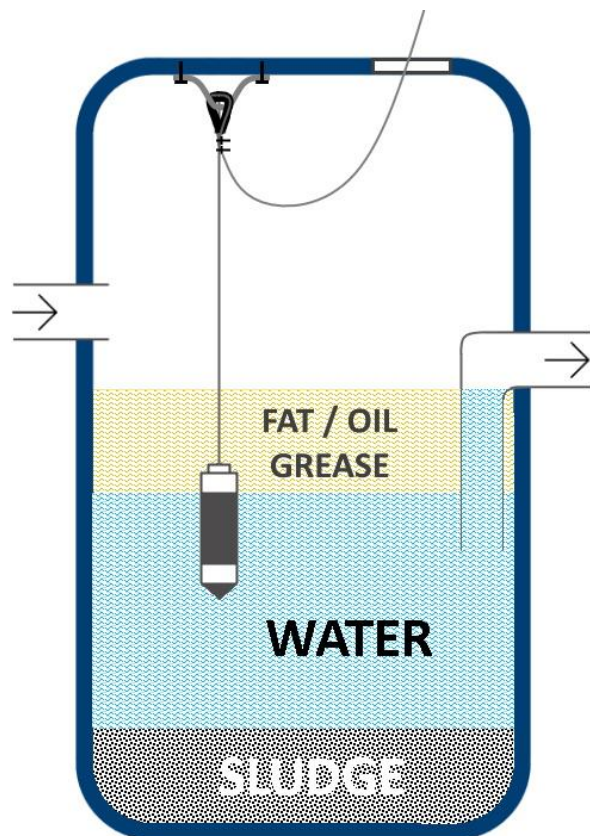
The upper- and lower-part probe has stainless steel electrodes, and between them is the polyacetal dielectric. Inside the probe is placed PCB electronics. The electronic circuit controls the conductivity between the electrodes.

The system works binary:

- **normal state** - the probe is in a conductive environment, e.g. water (low resistance)
- **alarm state** - probe is placed in dielectric environment e.g. oil, petroleum (high resistance).



Application




The probe measuring point is located on the upper connection of the metal and non-metallic (black) part. The probe should be placed at the height corresponding to the lower level of the oil, petroleum layer.

Hanging the probe should proceed as follows:

1. Fill the separator with water to the level of overflow at the outlet,
2. Install the NFIX mounting bracket in the upper part of the tank.
3. Place the probe in the separator tank at the required depth
4. Attach the probe cable to the mounting ear

For extending the probe cable, use the cable COUPLER for connecting ends of the wires.

Technical Data

Supply voltage	10V
Current consumption	9mA – 15mA
Cable	Length 5 m, oil resistant, type: OZ-BL_2x0.75
Working temperature	-30°C ÷ +60°C
Ambient temperature	-30°C ÷ +60°C
Degree of protection	IP 68
Dimensions	Roller, fi 24mm, height 137.5mm
Mass with cable	390 g
Mounting method	Vertical
Zone / ATEX Explosion Proof	Zone 0 /  II 1G Ex ia IIB T4 Ga
ATEX compliant	EN 60079-0, EN 60079-11, EN 60079-26
EU examination certificate	KOMAG 17ATEX0082X
Intrinsic safety parameters of the power circuit	Ui = 13 V; Ii = 0,14 A; Ci ≈ 0; Li = 6 µH; Pi = 1,05 W
CE conformity	Directive EMC 2004/108/WE EMC/immunity: PN-EN 50130-4:2012, PN-EN 61000-6-1:2008 EMC/ emission: PN-EN 55022:2011, PN-EN 61000-6-3:2008+A1:2012

Safe use manual

The device should be used according to its purpose. Please read the device manual before installation. The manufacturer shall not be legally responsible for any equipment damage or personnel injury caused by incorrect installation or operation other than that covered in this manual. Check the technical condition of the equipment. Make sure there is no mechanical damage to the case and the cable. During maintenance work, the unit must be disconnected from the power supply.

When installing in areas with potentially explosive atmospheres, comply with local regulations. During servicing, inspection and repairs in explosive atmospheres, the standards applicable in your country must be complied with.

Test and reviews

The manufacturer recommends reviewing the entire system every 6 months or whenever the separator is drained. During the inspection, clean the probe and check for mechanical damage. Then perform the action test with the SQUEALER controller.

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