

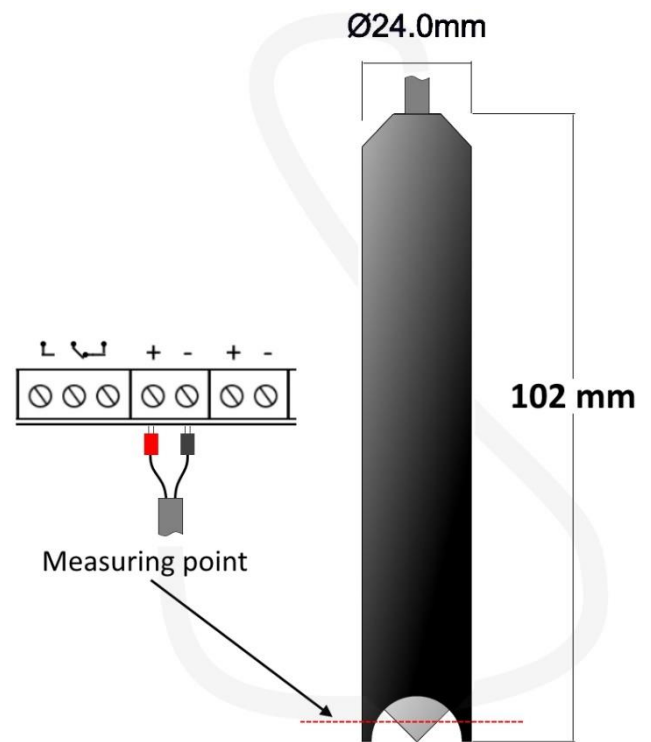
**MAX** – the probe is used in oil, grease or petroleum substances separators. MAX probe is dedicated to measuring the maximal level of liquid.

### Device construction

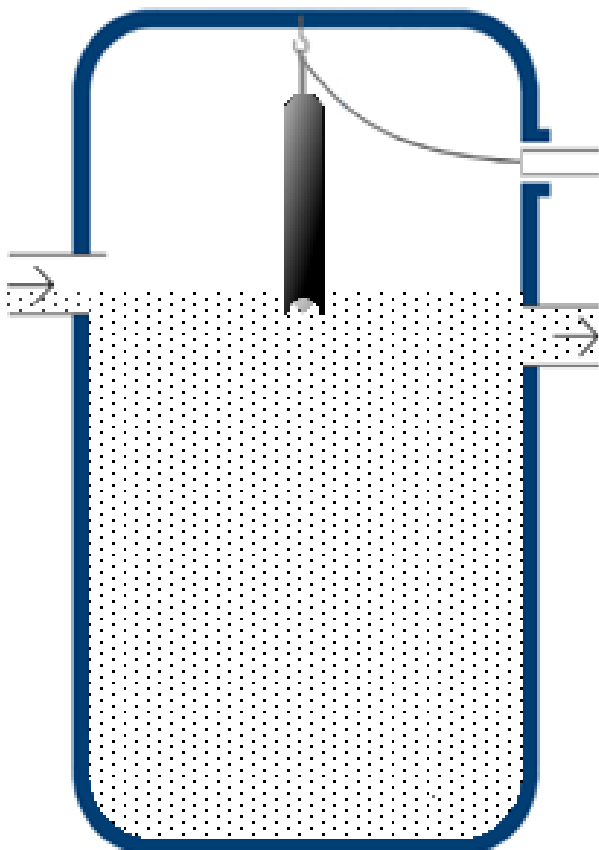
The upper and lower part probe has stainless steel electrodes, and between them is the polyacetal dielectric. Inside the probe is placed PCB electronics. The electronic circuit controls the conductivity between the electrodes.

The system works binary:

- **normal state** - the probe is located upon the water surface.
- **alarm state** - probe is placed in liquid environment e.g. water, oil, grease, fat.



### Application




The probe measuring point is located in the bottom of the probe. The probe should be placed at the height corresponding to the maximal level of the liquid e.g. water, oil, grease, fat.

Hanging the probe should proceed as follows:

1. Fill the separator with water to the level of overflow at the outlet,
2. Place the probe in the separator at the required depth (for measuring the thickness of the petroleum liquid it is 100 mm)
3. 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 102mm  |
| Mass with cable                                  | 260 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 18ATEX0262X  |
| Intrinsic safety parameters of the power circuit | $U_i = 13 \text{ V}$ ; $I_i = 0,18 \text{ A}$ ; $C_i \approx 0,1$ ; $L_i = 68 \text{ } \mu\text{H}$ ; $P_i = 1,05 \text{ W}$                         |
| CE conformity                                    | Directive EMC 2004/108/WE<br>EMC/immunity: PN-EN 50130-4:2012, PN-EN 61000-6-1:2008<br>EMC/ immunity: 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.

## 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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