

MAX 4-20mA Ex CE – the probe is used to measure the maximum level of liquids in oil, grease, petroleum separators, sewage tanks, rainwater tanks. It works with a series of controllers from the SQUEALER group. It is ATEX certified and can be installed in 0 hazardous areas of gases, vapours and mists.

Application

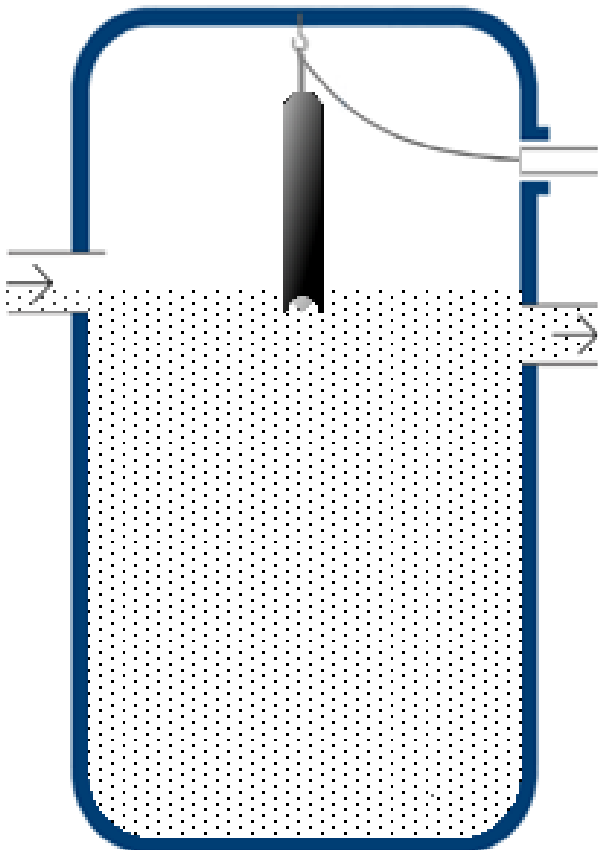
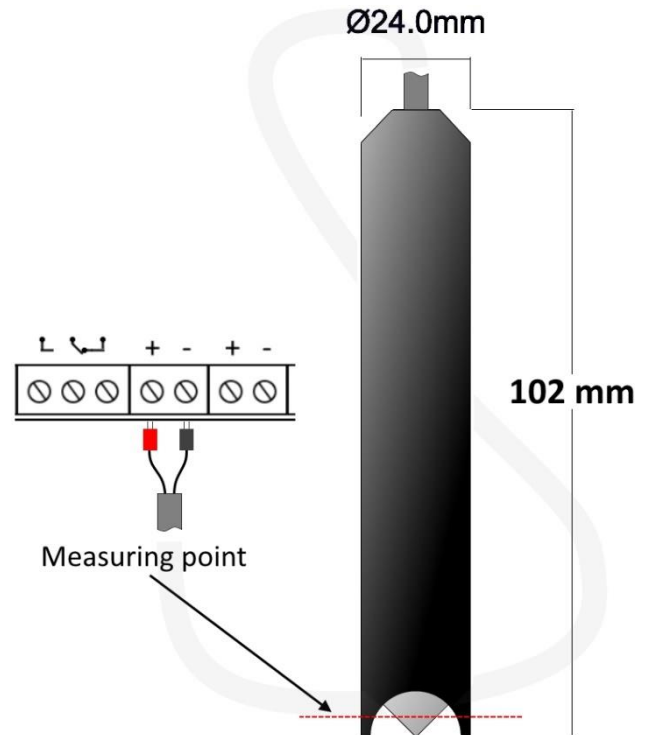
Separators of oil, fat, petroleum derivatives, # tanks for sewage, # rainwater tanks.

Construction of the device

The MAX probe in the lower part has an optical measuring system. Depending on the environment in which it is located, there is a change in signal strength, which in effect translates into the information issued at the output of the probe.

The probe operates in two states:

- normal state (<12mA) - the probe is in the air
- alarm state (>12mA) - probe immersed in liquid



Installation and commissioning

The measuring point is placed in the lower part of the probe, at a height of a few millimeters from the base of the body.

It is advisable to fill the tank with water to the level of the overflow at the drain.

The NFIX-1 mounting bracket should be attached to the upper part of the tank.

The probe shall be suspended at a height corresponding to the liquid alarm level described in the guidelines of the tank/separator manufacturer.

In the case of probe cable extension, mount the end of the cable in the coupler, which connect the probe to the controller.

Supply voltage	10V
Current consumption	9mA – 15mA
Cable	Length 5 m, oil resistant, 2x0,75
Protection	IP 68
Temperature in the liquid	-30°C ÷ +60°C
Ambient temperature	-30°C ÷ +60°C
Dimensions	Roller, fi 24mm, height 102mm
Mass with cable	260 g
Mounting method	Vertically
Explosion-proof zone	Zone 0 / Ⓜ II 1G Ex ia IIB T4 Ga
Compliance with ATEX	EN 60079-0, EN 60079-11, EN 60079-26
EU-type examination certificate	KOMAG 18ATEX0262X
Intrinsically safe parameters of the power supply circuit	$U_i = 13 \text{ V}$; $I_i = 0,18 \text{ A}$; $C_i \approx 0,1$; $L_i = 68,0 \mu\text{H}$; $P_i = 1,05 \text{ W}$
CE Conformity	Dyrektywa EMC 2004/108/WE EMC/odporność: PN-EN 50130-4:2012, PN-EN 61000-6-1:2008 EMC/emisyjność: PN-EN 55022:2011, PN-EN 61000-6-3:2008+A1:2012

Instructions for safe use

The device should be used for its intended purpose. Before installing, be sure to read the instructions for the device. Its technical condition should be checked. Make sure that there is no mechanical damage to the housing and cable. During maintenance work, the device must be disconnected from the power supply.

Inspections and reviews

The manufacturer recommends inspecting the entire system once every 6 months, or each time the separator is emptied. During the inspection, the probe should be cleaned and checked for mechanical damage. A performance test should then be carried out in cooperation with the SQUEALER controller.

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