

# Alarm unit WGA 01 for oil and petrol separators (layer level alarm/overflow alarm)



WGA 01



Probe  
WGA-ES4



Probe  
WGA-R6



## Application

Oil and petrol pose a great danger to groundwater and waste water. WGA 01 monitors the level of the separated liquid in oil/petrol separators and generates an alarm signal when it is necessary to empty the separator. In addition, the maximum level in the separator can be detected. This prevents overfilling caused by clogged outlets or other circumstances. The unit prevents harmful substances from being discharged into the mains drainage system.

## Description

WGA 01 consists of an evaluation unit, a capacitance probe (WGA-ES4) for detecting the layer level as well as an optional additional PTC thermistor probe (WGA-R6) for detecting the maximum level (overflow alarm). The evaluation unit is equipped with 2 relay outputs, visual and audible alarms as well as test and re-set buttons. The WGA-ES4 probe is mounted at least 150 mm below the constant level of the separator. As soon as the oil or petrol layer reaches the critical level, the unit generates an alarm signal. By installing an additional optional WGA-R6 probe above the constant level, the maximum permissible level in the separator can also be detected. The evaluation unit monitors the connected probes and signals short circuits or cable breaks in the probe circuits.

## Technical specifications

### Operating temperature range

Medium: 0 °C/+40 °C  
Ambient: 0 °C/+40 °C

### Probe WGA-ES4

Principle of operation: capacitance  
Length 220 mm, Ø 25 mm

### Probe WGA-R6 (option)

Principle of operation:  
PTC thermistor  
Length 100 mm, Ø 22 mm

### Probe cable

Cable length 5 m

### Distance probe – evaluation unit

Max. 200 m

### Supply voltage

AC 230 V

### Power consumption

Approx. 4 VA

### Relay outputs

Relay contacts, voltage-free changeover contacts (cannot be reset)  
1 x for layer level  
1 x for overfilling (overflow alarm)  
Contact rating:  
AC 250 V/5 A/ 100 VA

### Visual indication

1 green LED layer level (normal)  
1 green LED overflow (normal)  
1 red LED layer level (alarm)  
1 red LED overflow (alarm)

## Audible alarm

Integrated piezo-buzzer, re-settable

## Operational test

Integrated test button

## Housing

Wall mounting housing made from impact resistant plastic (polycarbonate)  
W x H x D: 175 x 125 x 75 mm

## Protection

IP 65 (EN 60529)

## Electrical connections

4 x cable glands

## ATEX approvals

Evaluation unit:  
Ex II (1) G [EEx ia] II B  
Probes:  
WGA-ES4: Ex II 1 G EEx ia II A T4  
WGA-R6: Ex II 1 G EEx ia II A T3

## Scope of delivery

Evaluation unit, probe WGA-ES4

## Optional

- Probe WGA-R6

DG: E	Part no.	Price €
WGA 01 with probe WGA-ES4 (layer level)	53410	
Additional probe WGA-R6 (overflow)	53419	
Spare probe WGA-ES4	53418	