

# Alarm units WGA 02/WGA 03 for oil, petrol and grease separators (layer level alarm/overflow alarm)



03

## Application

Oil, grease and petrol pose a great danger to groundwater and waste water. WGA 02 monitors the thickness of the layer of separated liquid in oil, petrol and grease separators and generates an alarm signal when it is necessary to empty the separator. WGA 03 can also detect the maximum level in the separator. This prevents overflowing caused by clogged outlets or other circumstances. The unit prevents harmful substances from being discharged into the mains drainage system.

## Description

WGA 02 consists of an evaluation unit and a conductivity probe (WGA-SD) for detecting the separating layer level. The evaluation unit is equipped with 2 relay outputs, visual and audible alarms as well as test and re-set buttons. The WGA-SD probe is mounted below the constant level of the separator. As soon as the oil, petrol or grease layer reaches the critical level, the unit generates an alarm signal. WGA 03 is equipped with an additional capacitance probe (WGA-AS). This is mounted above the constant level. An alarm is triggered when the maximum permissible level is reached. The evaluation unit monitors the connected probes and signals short circuits or cable breaks in the probe circuits.

## Technical specifications WGA 02

### Operating temperature range

Medium: 0 °C/+60 °C  
Ambient: -25 °C/+50 °C

### Probe WGA-SD (layer level)

Principle of function: conductivity  
Length 214 mm, Ø 25 mm

### Probe cable

PVC, oil resistant, length 5 m

### Distance probe – evaluation unit

Max. 300 m

### Supply voltage

AC 230 V

### Power consumption

Approx. 2 VA

### Relay outputs

Relay outputs, 2 voltage-free changeover contacts (1 can be reset)  
Contact rating: AC 250 V/ 5 A/100 VA

### Visual indication

1 green LED normal operation  
1 red LED alarm / 1 red LED fault

### 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 gland M16

## ATEX approvals

Evaluation unit:  
Ex II (1) G [EEx ia] II C  
Probe WGA-SD:  
Ex II 1 G EEx ia II A T4

## Scope of delivery

Evaluation unit, probe WGA-SD, junction box, mounting accessories

## Additional specifications WGA 03

### Probe WGA-AS (overflow)

Principle of function: capacitance  
Length 81 mm, Ø 82 mm

### Power consumption

Approx. 4 VA

### Visual indication

1 green LED normal operation  
2 red LEDs alarm / 2 red LEDs fault

### Electrical connections

5 x cable gland M16

## ATEX approvals

Probe WGA-AS: Ex II 1 G EEx ia II A T5

## Scope of delivery

Similar to WGA 02, but with additional probe WGA-AS

DG: E	Part no.	Price €
WGA 02 with probe WGA-SD	53400	
WGA 03 with probes WGA-SD, WGA-AS	53411	
Spare probe WGA-SD	53403	
Spare probe WGA-AS	53415	