

# Alarm units WGA 04/WGA 05 for oil, petrol and grease separators (silt alarm/layer level alarm)



WGA 05



Probe  
WGA-SN 01



Probe  
WGA-SD



## Application

WGA 04 is a unit designed to provide alarm signals in oil, petrol and grease separators in which also silt and sludge accumulations occur. WGA 05 also detects the level of the layer of separated liquid and generates an alarm signal when it is necessary to empty and clean the separator.

## Description

WGA 04 consists of an evaluation unit and an ultrasonic probe (WGA-SN 01). The probe generates an alarm signal when it detects solid matter between the two probe tips. The evaluation unit is equipped with 2 relay outputs, visual and audible alarms as well as test and re-set buttons. WGA 05 is equipped with an additional conductivity probe (WGA-SD) for monitoring the level of the separating layer. 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. The evaluation unit monitors the connected probes and signals short circuits or cable breaks in the probe circuits.

## Technical specifications WGA 04

### Operating temperature range

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

### Probe WGA-SN 01 (silt)

Principle of operation: ultrasound  
Length 142 mm, width 79 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: 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-setable

### 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 [Ex ia] II C

Probe WGA-SN 01:

Ex II 1 G Ex ia II B T5

## Scope of delivery

Evaluation unit, probe WGA-SN 01, junction box, mounting accessories

## Additional specifications WGA 05

### Probe WGA-SD (layer level)

Principle of operation: conductivity  
Length 214 mm, Ø 25 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-SD: Ex II 1 G EEx ia II A T4

## Scope of delivery

Similar to WGA 04, but with additional probe WGA-SD

DG: E	Part no.	Price €
WGA 04 with probe WGA-SN 01	53412	
WGA 05 with probes WGA-SN 01, WGA-SD	53413	
Spare probes WGA-SN 01	53416A	
Spare probes WGA-SD	53403	