

# Alarm unit for separators WGA 04/WGA 05



- For oil, petrol and grease separators
- Sand – sludge alarm/layer thickness alarm
- With ATEX approval for zone 0



**Application** WGA 04 monitors oil, petrol and grease separators for accumulations of sand and sludge and generates an alarm signal when it is time to clean the separator. WGA 05 additionally monitors the thickness of the layer of separated liquid and generates an alarm signal when it is time to drain the separator.

**Description** WGA 04 consists of a control 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 control unit is equipped with 2 relay outputs, visual and audible alarms as well as Test and Acknowledge buttons.

WGA 05 is additionally equipped with a conductivity probe (WGA-SD 03) for monitoring the layer of oil, petrol or grease. The WGA-SD 03 probe is mounted below the constant level of the separator. As soon as the oil, petrol or grease layer reaches the critical level, the device generates an alarm signal. The control unit monitors the probes for short circuits or line interruptions.

## Technical specifications

### Operating temperature range

Medium: 0/60 °C  
Ambient: -25/+50 °C

### Probe WGA-SN 01 (sand)

Function principle: ultrasound  
Length 142 mm, width 79 mm, depth 21 mm  
Cable length 5 m, PVC, oil-resistant

### Connection probe – control unit

Max. 300 m

### Supply voltage

AC 230 V

### Power input

Approx. 2 VA

### Switching outputs

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

### Visual indication

1 green LED operation  
1 red LEDs alarm  
1 red LEDs error

### Audible alarm

Integrated piezo buzzer, can be acknowledged

### Function test

By means of Test button

### Housing

Wall mounting housing made of impact-resistant plastic (polycarbonate)  
W x H x D: 175 x 125 x 75 mm  
Degree of protection IP 65 (EN 60529)

### ATEX approvals

Control unit: Ex II (1) G [Ex ia] II C  
Probe WGA-SN 01: Ex II 1 G Ex ia II B T5 Ga

### Scope of delivery

Control unit, probe WGA-SN 01, junction box, mounting material

### Additional specifications WGA 05

#### Probe WGA-SD (layer thickness)

Function principle: conductivity  
Length 216 mm, Ø 25 mm

### Power input

Approx. 4 VA

### Visual indication

1 green LED operation  
2 red LEDs alarm  
2 red LEDs error

### ATEX approvals

Probe WGA-SD 03: Ex II 1 G Ex ia IIA T5 Ga

### Scope of delivery

Like WGA 04, but with additional probe WGA-SD 03

DG: H, PG: 4	Part no.	Price €
<b>WGA 04</b> incl. probe WGA-SN 01	53412	
<b>WGA 05</b> incl. probes WGA-SN 01, WGA-SD 03	53543	
<b>Spare probe WGA-SN 01</b>	53416A	
<b>Spare probe WGA-SD 03</b>	<b>53542</b>	

Blue part no. = in-stock items