

# Alarm unit for separators WGA 01



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- For oil and petrol separators
- Layer thickness/overflow alarm



**Application** Oil and petrol pose a great danger to groundwater and waste water. WGA 01 monitors the thickness of the layer of separated liquid in oil and petrol separators and generates an alarm signal when it is time to drain the separator. In addition, the maximum level in the separator can be detected. This prevents overflowing that may be caused by clogged outlets or other circumstances. The unit keeps harmful substances from reaching the sewage water system.

**Description** WGA 01 consists of a control unit, a capacitance probe (WGA-ES4) for monitoring the thickness of the oil or grease layer and an optional additional PTC thermistor probe (WGA-R6) for detecting the maximum level (overflow alarm). The control unit is equipped with 2 relay outputs, visual and audible alarms as well as Test and Acknowledge 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 device generates an alarm signal. By installing the optional WGA-R6 probe above the constant level, you can also monitor the maximum level. The control unit monitors the probes for short circuits or cable breaks.

## Technical specifications

### Operating temperature range

Medium: -20/+40 °C  
Ambient: 0/40 °C

### Probe WGA-ES4

Function principle: capacitance  
Length 220 mm, Ø 25 mm  
Cable length 5 m

### Probe WGA-R6 (option)

Function principle: PTC thermistor  
Length 100 mm, Ø 22 mm  
Cable length 5 m

### Connection probe – control unit

Max. 200 m

### Supply voltage

AC 230 V

### Power input

Approx. 4 VA

### Switching outputs

Relay contacts: voltage-free changeover contacts  
(cannot be acknowledged)  
1 x for layer thickness  
1 x for overflowing (overflow)  
Contact rating: AC 250 V/5 A/ 100 VA

### Visual indication

1 green LED layer thickness (operation)  
1 green LED overflow (operation)  
1 red LED layer thickness (alarm)  
1 rote LED overflow (alarm)

### 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 B

Probes:  
WGA-ES4: Ex II 1 G Ex ia II A T4  
WGA-R6: Ex II 1 G Ex ia II A T3

### Scope of delivery

Control unit, probe WGA-ES4

### Options

Probe WGA-R6

DG: E	Part no.	Price €
<b>WGA 01</b> incl. probe WGA-ES4 (layer thickness)	<b>53410</b>	
<b>Additional probe WGA-R6</b> (overflow)	<b>53419</b>	
<b>Spare probe WGA-ES4</b>	<b>53418</b>	

# Alarm unit for separators

## WGA 02/WGA 03



- For oil, petrol and grease separators
- Layer thickness/overflow alarm



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**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 time to drain the separator. WGA 03 can also detect the maximum level in the separator. This avoids overflowing that may be caused by clogged outlets or other circumstances. The unit keeps harmful substances from reaching the sewage water system.

**Description** WGA 02 consists of a control unit and a conductivity probe (WGA-SD 02) for monitoring the oil or grease layer. The control unit is equipped with 2 relay outputs, visual and audible alarms as well as Test and Acknowledge buttons. The WGA-SD 02 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. WGA 03 is equipped with an additional capacitance probe (WGA-AS). It is mounted above the constant level. An alarm is triggered when the maximum level is reached. The control unit monitors the probes for short circuits or cable breaks.

### Technical specifications

#### Operating temperature range

Medium: -20/+60 °C  
Ambient: -25/+50 °C

#### Probe WGA-SD 02 (layer thickness)

Function principle: conductivity  
Length 214 mm, Ø 25 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 LED alarm  
1 red LED error

#### Audible alarm

Integrated piezo buzzer, can be acknowledged

#### 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-SD 02: Ex II 1 G Ex ia II A T5 Ga

#### Scope of delivery

Control unit, probe WGA-SD 02, junction box, mounting material

#### Additional specifications WGA 03

#### Probe WGA-AS (overflow)

Function principle: capacitance  
Length 81 mm, Ø 82 mm  
Cable length 5 m, PVC, oil-resistant

#### Power input

Approx. 4 VA

#### Visual indication

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

#### ATEX approvals

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

#### Scope of delivery

Like WGA 02, but with additional WGA-AS probe

DG: E	Part no.	Price €
<b>WGA 02</b> incl. probe WGA-SD 02	<b>53400</b>	
<b>WGA 03</b> incl. probes WGA-SD, WGA-AS	<b>53411</b>	
<b>Spare probe WGA-SD 02</b>	<b>53403</b>	
<b>Spare probe WGA-AS</b>	<b>53415</b>	

# Alarm unit for separators WGA 04/WGA 05



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- For oil, petrol and grease separators
- Sand alarm/layer thickness alarm



**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 02) for monitoring the layer of oil, petrol or grease. The WGA-SD 02 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 cable breaks.

## 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  
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 LED alarm  
1 red LED 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 214 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 02: Ex II 1 G Ex ia II A T5 Ga

### Scope of delivery

Like WGA 04, but with additional probe WGA-SD 02

DG: E	Part no.	Price €
<b>WGA 04</b> incl. probe WGA-SN 01	53412	
<b>WGA 05</b> incl. probes WGA-SN 01, WGA-SD 02	53413	
<b>Spare probe WGA-SN 01</b>	53416A	
<b>Spare probe WGA-SD 02</b>	<b>53403</b>	

# Alarm unit for separators WGA 06



- For oil, petrol and grease separators
- Oil-on-water alarm/overflow alarm



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**Application** Together with the WGA-ÖW probe, WGA 06 monitors pump and control shafts in separator systems for oil accumulations and generates an alarm signal before pollutants can reach the sewage system. It is also possible to connect the WGA-AS probe. This way, the maximum levels in separators or retention tanks can be detected. This avoids overflowing that may be caused by clogged outlets or other circumstances. The unit keeps harmful substances from reaching the sewage water system.

**Description** WGA 06 consists of a control unit and a capacitance probe (WGA-ÖW or WGA-AS). The control unit is equipped with 2 relay outputs, visual and audible alarms as well as Test and Acknowledge buttons. Either the floating probe WGA-ÖW or the fixed probe WGA-AS can be connected. WGA-ÖW floats on the surface of the water in the shaft and generates an alarm signal when an oil, grease or petrol layer of at least 15 mm has built up. WGA-AS is mounted above the constant level of the separator or the retention tank. An alarm is triggered when the maximum level is reached. The control unit monitors the probes for short circuits or cable breaks.

## Technical specifications

### Operating temperature range

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

### Floating probe WGA-ÖW (oil-on-water)

Function principle: capacitance  
3 PVC float balls  
Height 120 mm, Ø 370 mm  
Cable length 5 m, PVC, oil-resistant

### Probe WGA-AS (overflow)

Function principle: capacitance  
Length 81 mm, Ø 82 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 LED alarm  
1 red LED 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  
Probes: WGA-ÖW: Ex II 1 G Ex ia II A T5 Ga  
WGA-AS: Ex II 1 G Ex ia II A T5 Ga

### Scope of delivery

Control unit: without probes  
Probe: with junction box, without mounting material

DG: E	Part no.	Price €
WGA 06 without probes	53414	
Floating probe WGA-ÖW (oil-on-water)	53417	
Probe WGA-AS (overflow)	53415	