



Alarm unit for separators WGA 05



Benefits

- For oil, petrol and grease separators
- Sand - sludge alarm/layer thickness alarm
- With EX 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.

Versions

	Part no.
Alarm unit for separators WGA 05 incl. probes WGA-SN 01 (sand), WGA-SD 03 (layer thickness)	53543
Probe WGA-SN 01 for sand alarm	53416A
Probe WGA-SD 03 for layer thickness alarm	53542

Blue part no. = in-stock items

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

Supply voltage

AC 230 V

Power input

Approx. 4 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 normal operation,
 2 red LEDs alarm,
 2 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)

Ex approval

Ex II (1) G [Ex ia] IIC

Probe WGA-SN 01 (sand)

Measuring principle: Ultrasonic

W x H x D: 79 x 142 x 21 mm

Cable length: 5 m, PVC, oil-resistant

Ex approval: Ex II 1 G Ex ia IIB T5 Ga

Probe WGA-SD 03 (layer thickness)

Measuring principle: Conductivity

L x ø: 216 x 25 mm

Cable length: 5 m, PVC, oil-resistant

Ex approval: Ex II 1 G Ex ia IIA T5 Ga

Connection probe – control unit

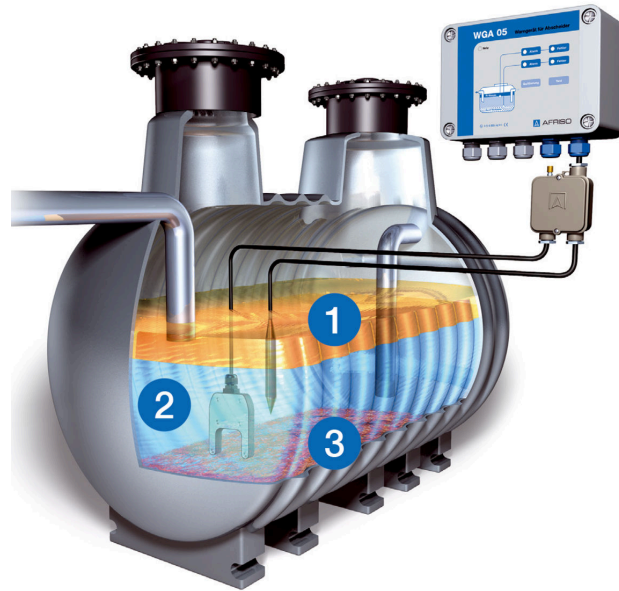
Max. 300 m

Scope of delivery

- Control unit
- Probe WGA-SN 01
- Probe WGA-SD 03
- Terminal box
- Mounting material



Detail views



- 1. Oil
- 2. Water
- 3. Sand / sludge