



Safety Precautions:

- Installation, initial start-up and maintenance may only be performed by trained personnel! All applicable European and national regulations regarding installation of electrical equipment must be adhered to.
- The device may only be connected to supply power which complies with the specifications included in the technical data and on the serial plate!
- The device must be disconnected from all sources of power during installation and maintenance work!
- The device may only be operated under the conditions specified in the operating instructions!

Functions Description:

The GAD 531 monitoring system is used with grease separators.
 The device indicates the current status, i.e. alarm, new/old or OK, by means of three LEDs and is equipped with integrated wire break and short-circuit monitoring.
 The device has a built-in piezo buzzer. If required, it can be shut down with the help of a jumper.

The sensor type: GP/10 recognizes the grease film floating on the water.

NOTE:

Very watery grease films / emulsions may not be recognized!

Technical Data GAD 531:

Supply power:	230V AC / 50 - 60Hz ±10%
Power consumption:	~2W
Protection rate:	IP65 accordant to EN 60529
Ambient temperature:	-20...+60°C
Monitoring:	The sensor is monitored for wire breaks and short-circuiting
Indication:	Operating indication: green LED for pulled in relay, Alarm: red LED Unacknowledged alarm: yellow LED
Operation:	Pushbutton for alarm acknowledgement and lamp test
Alarm relay:	1 output relay, 230V AC, 3A, floating changeover contact
Housing:	Polycarbonate, 120x80x55mm, IP65, for wall mounting

Technical Data Grease sensor CP/10:

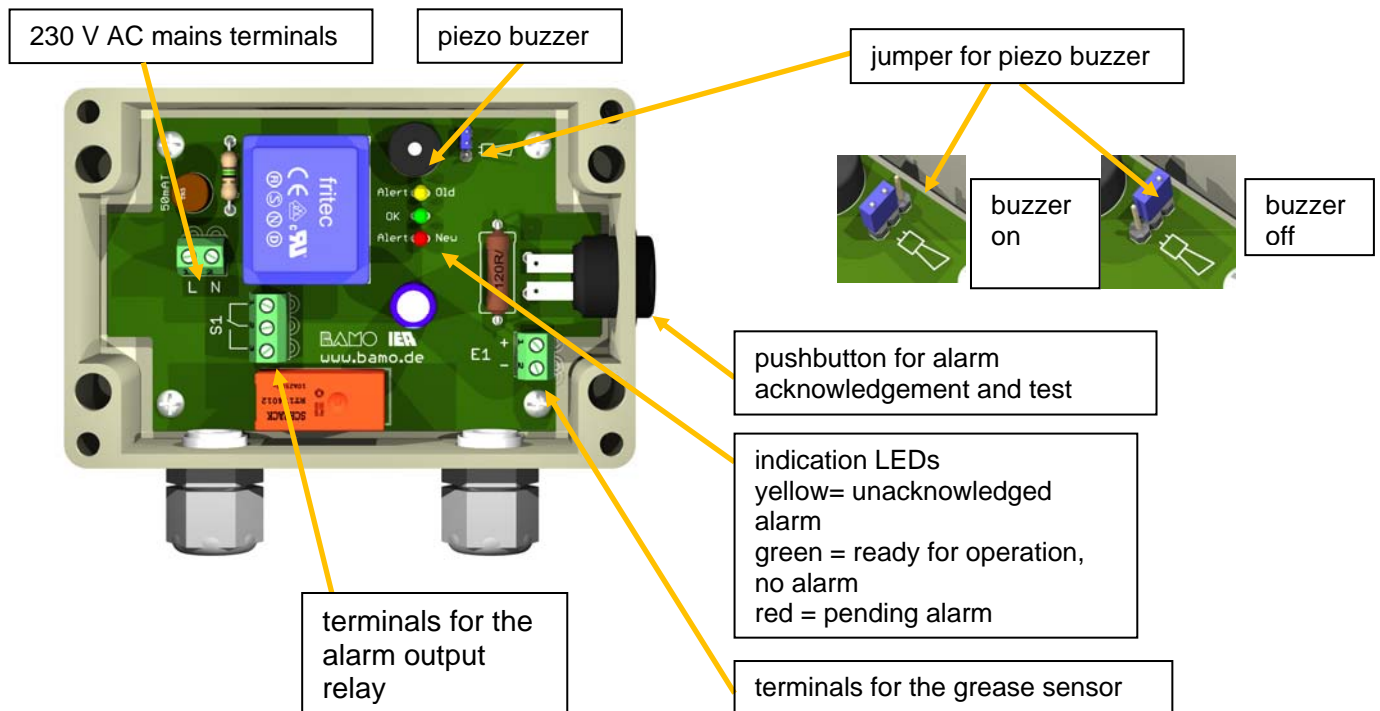
- Materials sensor:** PP, PE with stainless steel detector
- Cable:** 10m oil and petrol resistant cable, 2 x 1 sq. mm, std. equipment
- Maxi. permissible cable length:** 300m
- Dimensions:** ca. Ø32x230mm
- Protection rate:** IP68 accordant to EN 60529
- Measuring method:** capacitive, high-frequency
- Ambient temperature:** -20°C ... + 60°C
- Connection:** GAD 531 sensor feed unit with grease sensor

For connection to the GAD 531 sensor feed unit only!

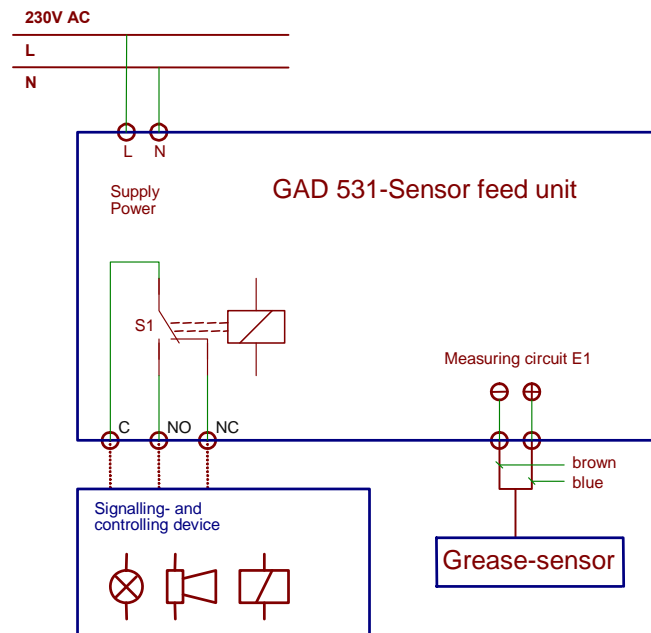
CE Mark:

The device fulfils the legal requirements of applicable EU-guidelines

Indication and operation:



Electrical Connection:



Installation:

Grease sensor: Mount such that the tip of the probe is at the height level of the desired alarm trigger point.

- Wiring the grease sensor
- Remove the cover from the GAD 531 sensor feed unit
- Connect the grease sensor in accordance with the wiring diagram
- Properly connect the GAD 531 sensor feed unit to the mains

Initial Start-Up:

NOTE:

Before initial start-up the grease sensor **must** be mounted in its final position.

Since the measurement is capacitive the grease sensor **must** be in contact with the water at initial start-up.

- Switch supply power on
- The GAD 531 sensor feed unit conducts a self-test (lamp test for all LEDs and piezo buzzer test)
- The grease sensor is tested for correct connection (short-circuit and wire break test)
- A test alarm is triggered which must be acknowledged by pressing the acknowledge key
- Test passed = continuously lit green LED

Test function:

The device has an integrated test function which can be triggered as follows:

As long as the test/acknowledge key is held depressed, the yellow LED and the piezo buzzer are activated (lamp and buzzer test).

Maintenance:

The GAD 531 sensor feed unit and the grease sensor are maintenance-free.

After an alarm has been detected, the grease sensor must also be cleaned after cleaning the separator. Grease and/or oil films can be removed from the grease sensor with commercially available, grease dissolving cleaners.