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19.1.2015 D15622Ce 1/11

GA-1

Grease Separator Alarm Device



1 GENERAL

GA-1 is an alarm device for monitoring the thickness of the grease layer accumulating in a grease separator.

The system consists of GA-1 control unit, GA-SG1 sensor and a cable joint.

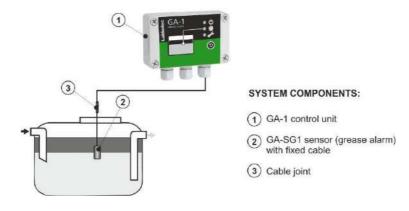


Figure 1. Grease separator supervision with GA-1 alarm device

GA-SG1 sensor is installed into the grease separator and it supervises thickness of grease layer.

The LED indicators, push button and interfaces of the GA-1 control unit are described in figure 2.

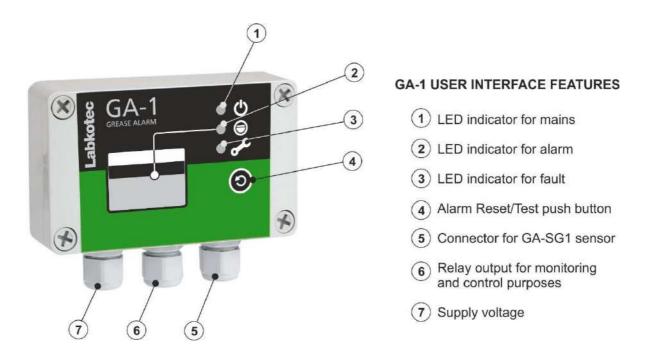


Figure 2. GA-1 control unit – features

2 TECHNICAL DATA

| GA-1 control unit | |
|--|--|
| Dimensions | 125 mm x 75 mm x 35 mm (L x H x D) |
| Weight | 250 g Package 0,8 kg (control unit + sensor + cable joint) |
| Enclosure | IP 65, material polycarbonate Cable glands adjustment range is 6 – 10mm |
| Operation temperature | -30 °C+50 °C |
| Supply voltage | 230 VAC ± 10 %, 50/60 Hz The device is not equipped with a mains switch |
| Power consumption | 5 VA |
| Sensors | GA-SG1 sensor |
| Relay output | Potential-free relay output 250 V, 5 A Operational delay 10 sec. Relay de-energize at trigger point. |
| Electrical safety | IEC/EN 61010-1, Class II , CAT II |
| EMC Emission Immunity | IEC/EN 61000-6-3 IEC/EN 61000-6-1 |
| Manufacturing year: Please see the serial number on the type plate | xxx x xxxxx xx YY x where YY = manufacturing year (e.g. 14 = 2014) |

| GA-SG1 sensor | |
|---|---|
| Principle of operation | Capacitive |
| Material | POM, PUR, AISI 316 |
| Weight | 350 g (sensor + fixed cable) |
| IP-classification | IP68 |
| Operation temperature | 0 °C+90 °C |
| Cable | Fixed cable 2 x 0.75 mm ² . Standard length 5 m, other lengths optional. The max. length of the fixed cable is 15 m, can be extended. Maximum cable loop resistance is 75 Ω . |
| EMC Emission Immunity | IEC/EN 61000-6-3 IEC/EN 61000-6-1 |
| Manufacturing year: Please see the serial number from the bottom of sensor | GAxxxxx YY where YY = manufacturing year (e.g. 14 = 2014) |

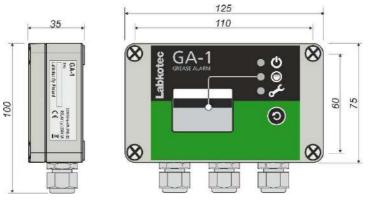


Figure 3. GA-1 control unit

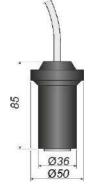


Figure 4. GA-SG1 sensor

Declaration of Conformity

This declaration certifies that the below mentioned apparatus conforms to the essential requirements of the EMC directive 2004/108/EY and Low-Voltage directive (LVD) 2006/95/EC.

| Description of the apparatus: | Measuring and control unit with sensor | |
|--|--|--|
| Туре: | GA-1 Grease Alarm control unit with GA-SG1 sensor GA-2 Grease Alarm control unit with two GA-SG1 sensors | |
| Manufacturer: | Labkotec Oy Myllyhaantie 6 FI-33960 Pirkkala FINLAND | |
| The construction of the appliance is in accordance with the following standards: | | |
| EMC: | | |
| EN 61000-6-1 (2007) | Electromagnetic compatibility, Generic standards – Immunity for residential, commercial and light-industrial environments. | |
| EN 61000-6-3 (2007) +A1 (2011) | Electromagnetic compatibility, Generic standards – Emission standard for residential, commercial and light-industrial environments. | |
| EN 61000-3-2 (2006) +A1+A2 (2009) | Electromagnetic compatibility, Product family standard: Harmonic current emissions. | |
| EN 61000-3-3 (2008) | Electromagnetic compatibility, Product family standard: Voltage changes, fluctuations and flicker sensation. | |
| LVD: | | |
| EN 61010-1 (2010) | Safety requirements for electrical equipment for measurement, control and laboratory use. Part 1: General requirements. | |

This product is CE-marked since 2013.

Signature

The authorized signatory to this declaration, on behalf of the manufacturer, and the Responsible Person based within the EU, is identified below.

Pirkkala 20.5.2013 V Ari Tolonen CEO

Labkotec Oy

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