S09.0.01.6C-05

GREISINGER

EN

Operating Manual

# GEWAS 200


CE

Made in Germany

WEEE-Reg.-No. DE93889386

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# Contents

# 1 General Note

Read this document carefully and get used to the operation of the device before you use it. Keep this document within easy reach near the device for consulting in case of doubt.

Mounting, start-up, operating, maintenance and removing from operation must be done by qualified, specially trained staff that have carefully read and understood this manual before starting any work.

The manufacturer will assume no liability or warranty in case of usage for other purpose than the intended one, ignoring this manual, operating by unqualified staff as well as unauthorized modifications to the device.
The manufacturer is not liable for any costs or damages incurred at the user or third parties because of the usage or application of this device, in particular in case of improper use of the device, misuse or malfunction of the connection or of the device.
The manufacturer is not liable for misprints.

# 2 Safety

## 2.1 Intended Use

Alarm and protection device for DIN rail mounting, with input (screw-type terminals) for external sensors. In case of an alarm the connected device (e.g. pump, machine) is switched of by a change-over contact.

The safety requirements (see below) have to be observed.
The device must be used only according to its intended purpose and under suitable conditions.

Use the device carefully and according to its technical data (do not throw it, strike it, ...)

Protect device from dirt.

## 2.2 Safety signs and symbols

Warnings are labelled in this document with the followings signs:


**Caution!** This symbol warns of imminent danger, death, serious injuries and significant damage to property at non-observance.

**Attention!** This symbol warns of possible dangers or dangerous situations which can provoke damage to the device or environment at non-observance.

**Note!** This symbol point out processes which can indirectly influence operation or provoke unforeseen reactions at non-observance.

## 2.3 Safety guidelines

This device has been designed and tested in accordance with the safety regulations for electronic devices. However, its trouble-free operation and reliability cannot be guaranteed unless the standard safety measures and special safety advises given in this manual will be adhered to when using the device.

1. Trouble-free operation and reliability of the device can only be guaranteed if the device is not subjected to any other climatic conditions than those stated under "Specification".
   If the device is transported from a cold to a warm environment condensation may cause in a failure of the function. In such a case make sure the device temperature has adjusted to the ambient temperature before trying a new start-up.

2. 

   Make sure to observe the standard regulations and safety instructions for electric, heavy and weak currents plants, in particular the national safety regulations (e.g. VDE 0100).

3. 


If there is a risk whatsoever involved in running it, the device has to be switched off immediately and to be marked accordingly to avoid re-starting.
Operator safety may be a risk if:
- there is visible damage to the device
- the device is not working as specified
- the device has been stored under unsuitable conditions for a longer time.
In case of doubt, please return device to manufacturer for repair or maintenance.

4. 


Do not use these products as safety or emergency stop devices or in any other application where failure of the product could result in personal injury or material damage.
Failure to comply with these instructions could result in death or serious injury and material damage.

# 3 Product Specification

## 3.1 Scope of supply

The scope of supply includes:

- Device GEWAS 200
- Operating manual

## 3.2 Operation and maintenance advice

- In order to ensure long-time and trouble-free operation of the device, the functioning of the device has to be checked at regular intervals (as is the case with any safety device). To do so, produce an alarm at least once a month by short-circuiting both water sensor contacts by means of a metal object (e.g. spoon, knife, etc.).

- The device has to be treated and handled carefully in accordance with the above specifications (do not throw, bump against, etc.).

- **!!! Never use GEWAS in a humid environment !!!**

# 4 Accessories

| | | |
|---|---|---|
| Water sensor: | GWF-1 | additional water sensor |

# 5 Function

After connecting the GEWAS200 to the power supply voltage the green LED "GL" (operating display) will light up.
With the button "T" the relay function can be tested: while pressing the button the relay will be activated.
After disengaging the button the GEWAS will be reset to the standard operation.
If the water film at the water sensor exceeds 0.5mm the control device automatically triggers an alarm. The relay will be switched on and the red LED "RL" (alarm display) will light up.
To clear the alarm, press the button "T" for approx. 1 second. The alarm will be reset when the alarm cause is removed (e.g. the water sensor is not longer in water)

## What to do in case of an alarm

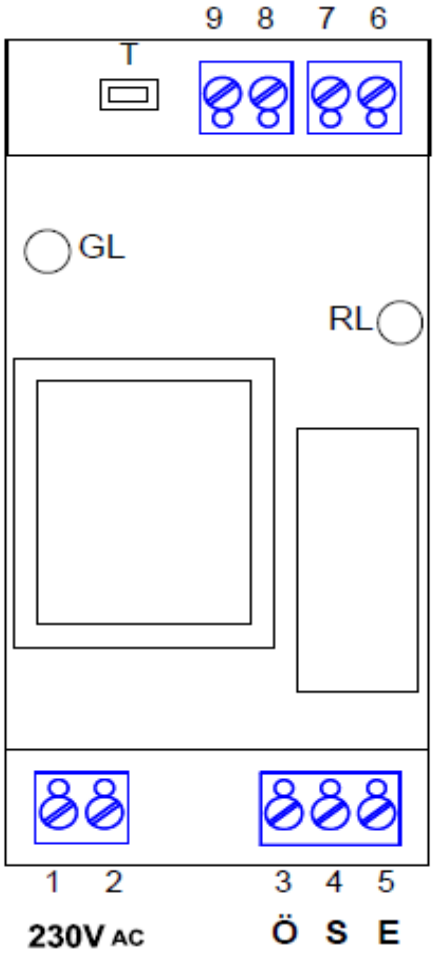
- Try to find and remedy fault cause.
- Reset the control device by pressing the button “T” to normal operation

**Possible fault causes:**

- The water sensor is defective.
- The water sensor contacts are connected (e.g. by means of a piece of metal etc.)
- There is a water film at the water sensor.

# 6 Installation and Commissioning

***Please note! The electrical installation must be carried out by an accredited electrician.***




Standard regulations for operation and safety for electrical equipment have to be observed. Paying no attention to the regulations could result in function errors with material damage and personal injury.

By connecting to an heat or cold generator with ground wire danger to live will occur by wrong connection (change of the wires).

- Place water sensor at desired position and fix it, if necessary.

- Connect water sensor 1 at the terminal 6 and 7 and water sensor 2 at the terminal 8 and 9. (polarity is not necessary)

- Connect at terminal 3, 4 and 5 the device which have to be switched on or off in case of alarm (e.g. motor, pump, horn, etc.)

- Connect the power supply at the terminal 1 and 2:
  220-240V, 50/60Hz

**! Well done, your GEWAS device is now ready for use !**

# 7 Specification

| | |
|---|---|
| **Power supply:** | 220/240V 50/60Hz |
| **Power rating:** | approx. 3 Watt |
| **Relay output:** | volt-free changeover contact |
| **max. switching current:** | 250V AC / 150V DC |
| **max. switching voltage:** | 10 A (ohmic load) |
| **max. switching power:** | |
| for ac-voltage: | max. 2400VA (240V, 10A, ohmic load, cosφ = 0.95) |
| | for inductive switching loads always use a RC-element |
| for dc-voltage: | max. 240W (24V, 10A, ohmic load) |
| **Dimensions:** | 49 x 96 x 59 mm (H x W x D) |
| **Mounting:** | universal foot base can be snapped on to all commercial DIN EN support rails. |
| **EMC:** | The device correspond to the essential protection ratings established in the Regulations of the Council for the Approximation of Legislation for the member countries regarding electromagnetic compatibility (2004/108/EG) |

# 8 Reshipment and Disposal

## 8.1 Reshipment

**DANGER**

All devices returned to the manufacturer have to be free of any residual of measuring media and other hazardous substances. Measuring residuals at housing or sensor may be a risk for persons or environment

Use an adequate transport package for reshipment, especially for fully functional devices. Please make sure that the device is protected in the package by enough packing materials.

## 8.2 Disposal instructions

The device must not be disposed in the unsorted municipal waste! Send the device directly to us (sufficiently stamped), if it should be disposed. We will dispose the device appropriate and environmentally sound.