

repeater alarm unit Ventus



- Functional description
- Instructions for use
- Installation instructions
- Maintenance and service



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Use

To repeat the emergency signal unit from the Ventus to a additionally place (for example nurses room, OR, .etc.)

Design

The case is white coated (RAL 9016), optional colour according customers needs. The housing contains up to 6 pressure monitoring channels. Each channel contains 3 LED's (red, green and red).

left red LED -> pressure low
green LED -> pressure normal
right red LED -> pressure high

With the integrated RS485 interface is the section alarm unit connected with the emergency signal unit from the Ventus (three wire cord).

Operation

Acknowledge alarms

The active alarm can be muted by pressing the "Reset" button. This means that the buzzer is deactivated for a period of 12 minutes. The displays / relays remain in alarm status. If the cause of the alarm is still present after 12 minutes, the acoustic alarm is reactivated.

If several alarms are activated simultaneously in a multiple warning situation, e.g. Gas 1 pressure too high, Gas 2 pressure too low, the acoustic alarm can be muted for all active alarms by pressing the "Reset" key.

A new, additional alarm immediately activates the buzzer again

Muting alarms within the alarm – secondary alarm connection via the serial interface

Press "Reset" on the emergency alarm unit

- The alarm is "muted" both on the emergency alarm unit and on the secondary alarm unit

Press "Reset" on the secondary alarm unit

- The alarm is only muted on the secondary alarm unit

Technical data

Design:	Display up to six emergency alarm channels, each channel contains tree LED's (red, green, red), dry contact (changeover) for each channel. Housing of sheet metal, coated white (RAL 9016). Electrical connection top or below, integrated power supply.		
Dimensions:	Flush-mounted / cavity wall housing Housing (HxBxT) Cover (HxBxT) On wall casing (HxBxT) Drawing see page 8	ca.: 123 x 238 x 65 ca.: 131 x 303 x 16 ca.: 131 x 303 x 65	[mm] [mm] [mm]
Power supply: (integrated)	Inlet: outlet:	100...240 V AC, 50-60 Hz 24V DC	
Elektronik:	Inlet power:	12...24V AC / DC	
Relays contact:	Changeover, 24V DC 1A, dry contacts		
Guidelines:	DIN EN ISO 7396-1 DIN EN ISO 60601-1-8		

Important information

- To join ground connection technically correct.
- To join the power supply only from a electrically qualified person.
- Note the documentation of the power supply.
- No warranty claims are accepted in case of damage or malfunction resulting from incorrect transportation, improper storage or incorrect use.

Recommended installation sequence

Preparation

- Emergency signal monitoring Ventus (source): Use the programming software "GasconConfig" and change the Type from "Shut off valve" to the option „Shut off valve with slave shut off valve“. Note programming manual Ventus.
- Check the hole for the case, and if necessary scale the hole.
- A three wire cord should be in place (from Ventus to section alarm unit).
- Dismount the section alarm unit.

Installation

- Install the rear part of the case on / into the wall.
 - Hole for cavity wall ca. 240 x 98 [mm] (HxBxT) (all dimensions ± 3 mm).
- Connect the stabilized power supply to the supply (Input 100-240V AC, 50-60Hz)
 - **only from a electrically qualified person.**
- Connect the serial wire to plug number two (see next page).
- Connect the serial wire to the Ventus (see next page).
 - Note the documentation of the Ventus.
- Connect the wire (24V DC) from the power supply with the section alarm unit.
- For Flush-mounted / cavity wall housing: With four M4 screws to screw the cover frame on top of the base housing.
- Plug the support plate with the electronic into the frame (first up and then push the plate down, see pictures page 10).
 - Caution! Watch out for the cable (don't forget the grounding cable).
- Mount the magnetic vinyl to the support plate.
- Switch on the power supply.

Inspection

- Check the marking (gas type).
- Perform a complete function check.

Maintenance / service

Every alarm unit must undergo a regular safety inspection (external damage / function check). Perform an operational test at least once annually on every alarm unit (function check, see page 9). Malfunctions and damage may only be rectified by authorised trained personnel. Use only original GREGGERSEN replacement parts for repairs!

Cleaning

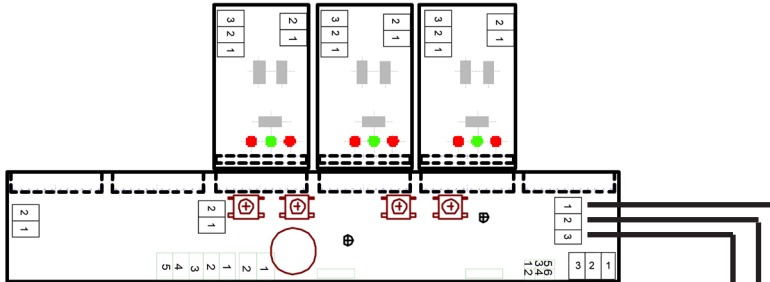
Sheet metal front: wipe with a lightly moistened, soft cloth. Important: never use cleaning agents with abrasive additives or contaminated cleaning water containing particulate matter!!!

repeater alarm unit Ventus

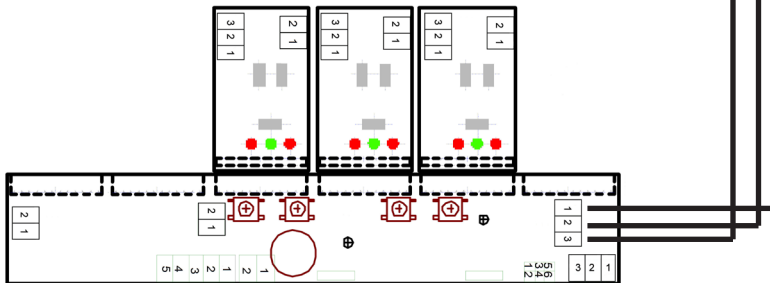


Electrical connections repeater alarm unit -> Ventus alarm unit

Ventus area alarm unit (master)



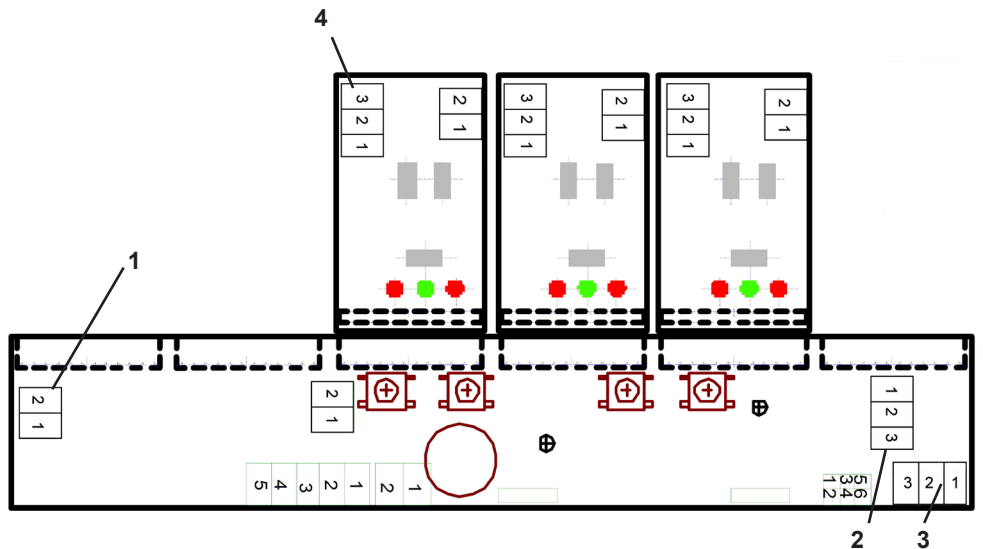
Repeater alarm unit Ventus (slave)



Connect plug 2 Ventus area alarm unit with plug 2 repeater alarm unit. The ports must connect 1:1 (1-1; 2-2; 3-3). Use a 3 wired **shielded** cable 0,25 qmm. The maximum length of the connection wire should be 500 m.

Terminal assignment of the electronic board

pos.	description	pin
1	Supply voltage	12V - 24V AC / DC
2	Connection to alarm unit Ventus	1-B; 2-A; 3-GND
3	Relay contact main board	1-NO; 2 -NI; 3-NC
4	Relay contact	1-NO; 2 -NI; 3-NC



Example electric circuit relay (NI - NC)

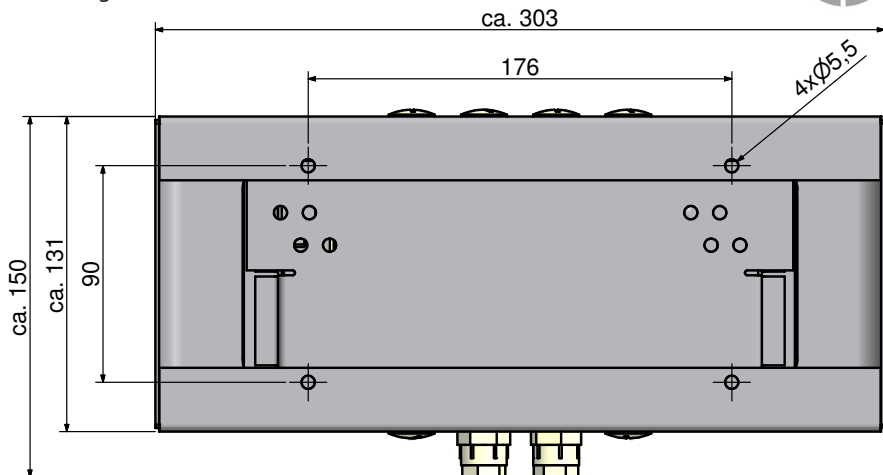
current condition emergency alarm unit	relay contact (NI - NC) (dry contact)
currentless	open
normal operating (green)	close
alarm (red)	open

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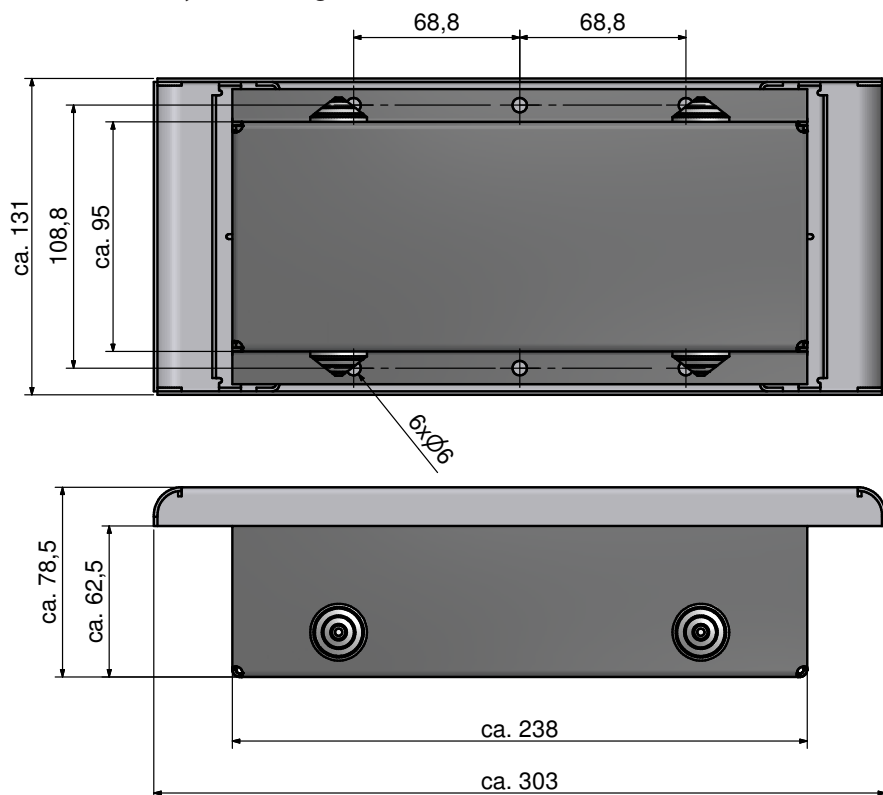


Dimensions

On wall casing



Flush-mounted / cavity wall housing



Error message

no.	description	Priorität	LED-Onzeige			
			red	grün	red	Signal
1	normal operating	0	off	on	off	off
2	test alarm	1	flashing	off	flashing	on
3	pressure to high	10	off	off	flashing	on
4	pressure to low	10	flashing	off	off	on
5	door opened	2	off	flashing	off	on
6	pressure switch alarm	10	flashing	off	flashing	on
7	error in module M1	9	flashing	flashing	flashing	off
8	error in Module M2/M3	9	off	off	off	on
9	CRC error in EEPROM M1	7	off	flashing	on	on
10	CRC error in EEPROM M2/M3	7	on	flashing	off	on
11	communication error M1->M2/M3	8	off	off	off	on
12	communication error M2/M3->M1	8	flashing	flashing	flashing	off
13	communication error section alarm unit	3	on	flashing	on	off
14	short circuit at sensor M2 / M3	9	on	flashing	flashing	on
15	sensor cable break on M2 / M3	9	flashing	flashing	on	on
16	loss communication main alarm unit -> section alarm unit	5	on	flashing	on	on
17	loss communication with M8	4	flashing	on	on	on
18	error M8	8	on	on	on	off

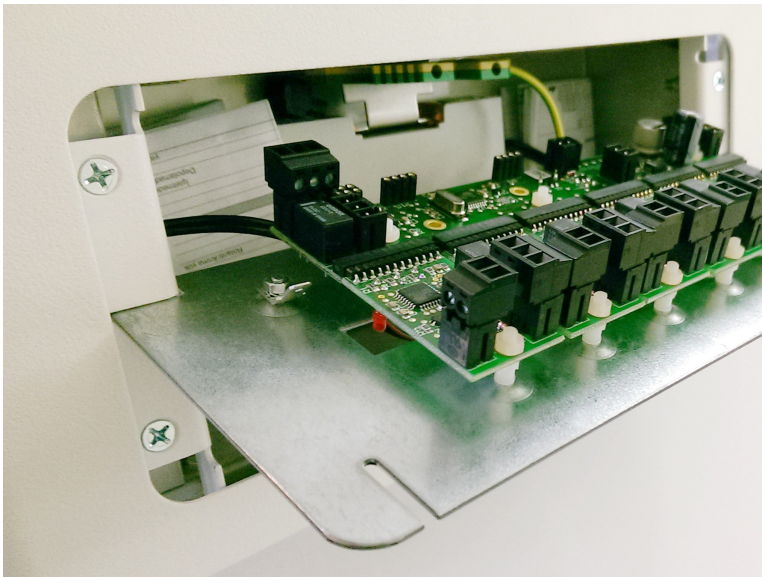
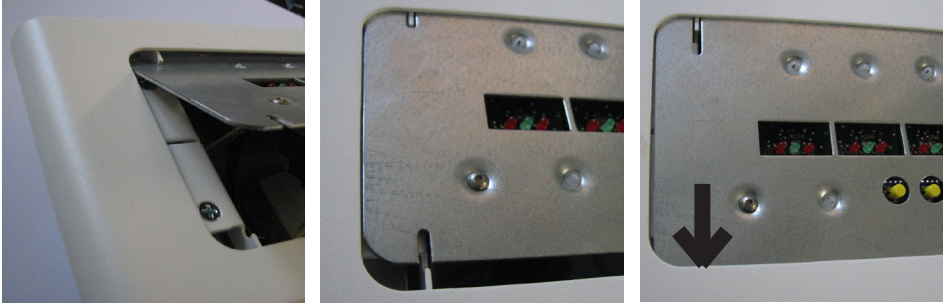
Sequence of test alarm

Pressing the "Test" button initiates the following sequence self-test of the EEPROM and program (FLASH) memory of the alarm micro controller:

1. All LEDs off for one second;
2. All red and green LEDs on for one second;
3. Activation of acoustic signaller;
All red LEDs start flashing;
If this is a designer variant, all background lighting is switched on;
4. After 10 sec. the self-test switches itself off.

Any alarm can interrupt the test sequence at any time

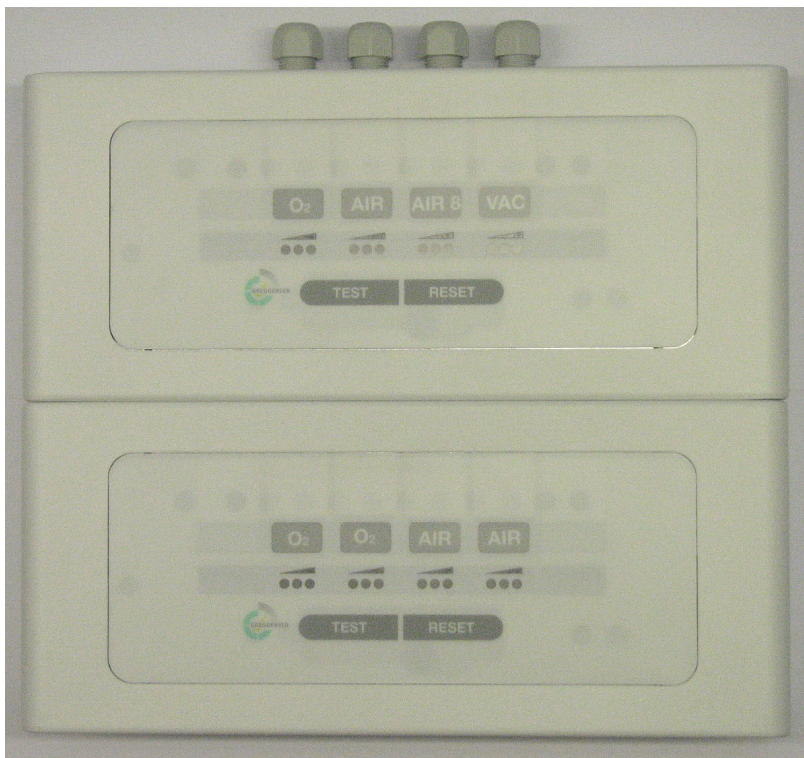
Mount support plate with the electronic board



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Connect more than one alarm units





**Greggersen
Gasetechnik GmbH**

Bodestraße 27-29
21031 Hamburg
Germany

Fon +49 (0)40-73 93 57-0
Fax +49 (0)40-73 93 57-39
 +49 (0)40-73 93 57-27

info@Greggersen.de
www.Greggersen.de

