



GEOVENT

INSTRUCTION MANUAL



GEOGUARD

500 – 5000 Pa

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1.0 Introduction

This manual is made and designed in order to facilitate the best and most secure interaction with the product. The manual is relevant for people involved in transportation, stocking, installation, using, maintaining and all other thinkable interaction with the product.

The manual must be read in full and understood before interacting with the product.

When the manual has been read and understood in full, the table of contents can be used to find the relevant information in each case.

The product is manufactured by:

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DENMARK

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www.geovent.com

This manual is to be used for all interactions with the product including: Transportation, stocking, installation, operation and maintenance.

This product is marked with: (example)

13-745



GeoGuard 2.500 (500-2.500 Pa)

2.0 Safety

2.1 General safety

Carefully read this manual before use and observe the safety instructions in order to avoid injuries!
Keep this manual in a safe place!

Secure that all users of the product have read this manual and that they follow the instructions as described. Observe all instructions marked on the product!
Never use the product if you are in doubt about how it works or what you should do.

When doing maintenance follow the instructions in chapter 7.0.

Do not modify the product or use spare parts from other suppliers than Geovent, as this may hamper the product and the function.

2.2 Danger

You must handle the product with care.

Follow the instructions in chapter 7.0 when the product is maintained.

The product is not to be used in areas categorised as ATEX zones, e.g. with dust from aluminium, flour, wood, and other mediums that present an explosion hazard.

If a repair is not possible you should dispose of the product. Please follow the instruction for disposal in chapter 10.0.

3.0 Machine overview

3.1. Description

Geovent GeoGuard is a control device used as a pressure guard/ventilation guard with alarm according to the Danish Working Environment Authority regulations.

The pressure switch of GeoGuard is supplied in three pressure ranges: 50-500 Pa, 500-2500 Pa or 1000-5000 Pa.

3.2 Intended use

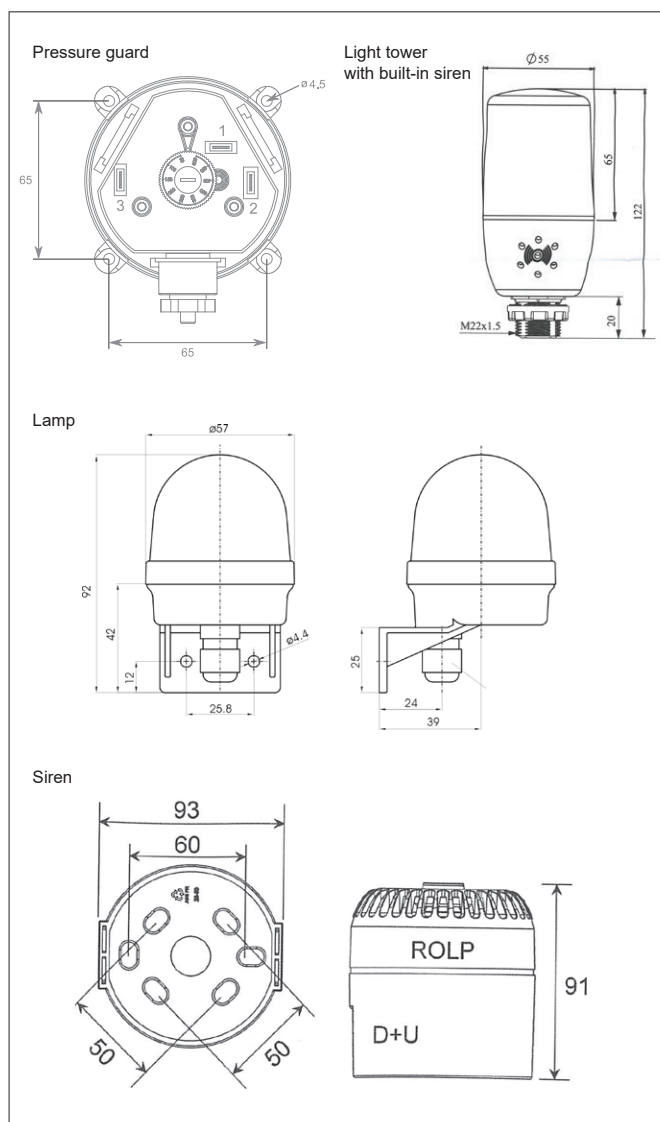
The Geovent GeoGuard must not be used in an area categorised as an ATEX zone.

In case of use in an ATEX installation GeoGuard must be installed outside the ATEX Zone.

3.3 Machine specifications

3.3.1 Design

The GeoGuard is supplied as individual components.



3.3.2 Technical data

Dimensions

Vare.nr.	Model/Dimension
13-740	GeoGuard 500 (50-500 Pa) with differential pressure switch, 2 m pressure hose and warning light
13-741	GeoGuard 500 (50-500 Pa) with differential pressure switch, 2 m pressure hose and with multicolored light with integrated siren
13-742	GeoGuard 500 (50-500 Pa) with differential pressure switch, 2 m pressure hose and external siren
13-745	GeoGuard 2.500 (500-2.500 Pa) with differential pressure switch, 2 m pressure hose and warning light
13-746	GeoGuard 2.500 (500-2.500 Pa) with differential pressure switch, 2 m pressure hose and with multicolored light with integrated siren
13-747	GeoGuard 2.500 (500-2.500 Pa) with differential pressure switch, 2 m pressure hose and external siren
13-750	GeoGuard 5.000 (1.000-5.000 Pa) with differential pressure switch, 2 m pressure hose and warning light
13-751	GeoGuard 5.000 (1.000-5.000 Pa) with differential pressure switch, 2 m pressure hose and with multicolored light with integrated siren
13-752	GeoGuard 5.000 (1.000-5.000 Pa) with differential pressure switch, 2 m pressure hose and external siren

4.0 Transport, handling and storage

During transport in a truck or in another means of transportation the product must be securely packed in a box or a pallet and covered with a water proff material. The product must be securely stowed in the truck so that it will neither tilt nor shift during transport.

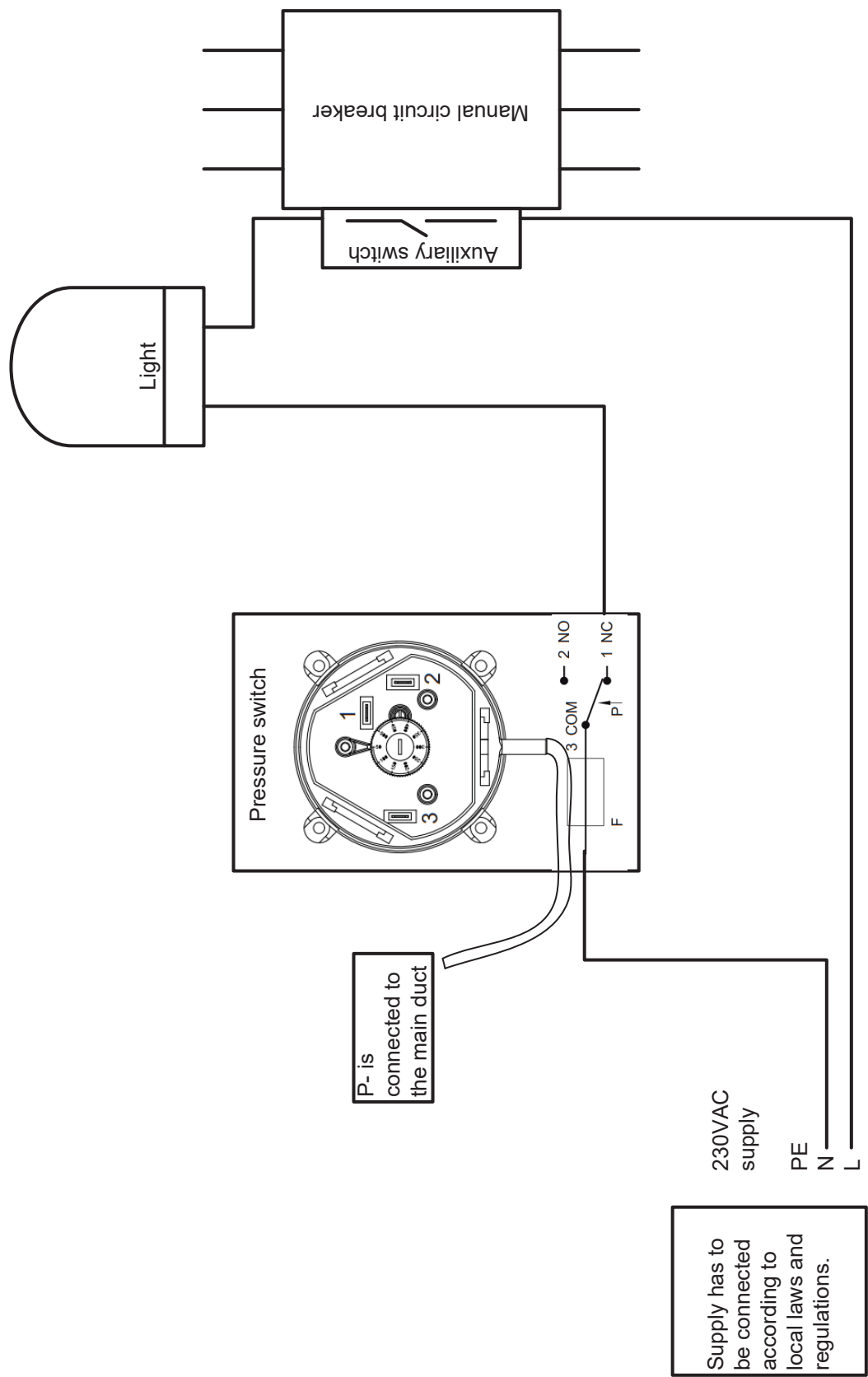
The product must be placed in a dry place and covered securely, in order to secure that moist, metal parts or other substances do not damage the product. It is not allowed to place anything on top of the product.

5.0 Assembly, installation and start of operation

5.1 Location

The GeoGuard must be installed so that it is visible to the person(s) who must be aware of the functioning of the ventilation system.

Connection diagram



5.2 Installation

1. 230V supply is installed in terminals L and N as shown in the diagram below. The supply must be made according to AT's instructions.



2. The pressure hose is connected from the GeoGuard (the top socket - closest to the lid) and to the ventilation duct.

3. The desired alarm point is set on the pressure switch (notch in the middle - see drawing on page 4). Recommended set point is approximately 20% below operating pressure.

5.3 Control and test of the security system

To test whether the alarm is working, pull the hose off the pressure switch while the system is running. If the lamp lights up the system is working.

6.0 Commissioning

The red alarm of the pressure switch is activated if the pressure falls below the set alarm point. If more than one room is to be monitored, several lamps can be connected in parallel.

6.1 After installation

Check the installation according to chapter 5.3.

7.0 Control, test and maintenance

7.1 Control

Check the installation according to chapter 5.3.

7.2 Maintenance

Once the system is established and tested, there is no maintenance.

If the installation conditions or the system changes, the alarm point can be adjusted as specified in point 5.2.

8.0 Cleaning

The outside of the product is cleaned with a vacuum cleaner or a cloth.

9.0 Troubleshooting

If there is no light in the lamp

- Check the bulb and replace the bulb if necessary.
- Check supply voltage

If the lamp lights constantly

- Check that the hose is on the correct stud on the pressure switch P2
- Check that the hose is correctly connected to the exhaust duct
- Check that the alarm point is set correctly

10.0 Dismantling, disabling and scrapping

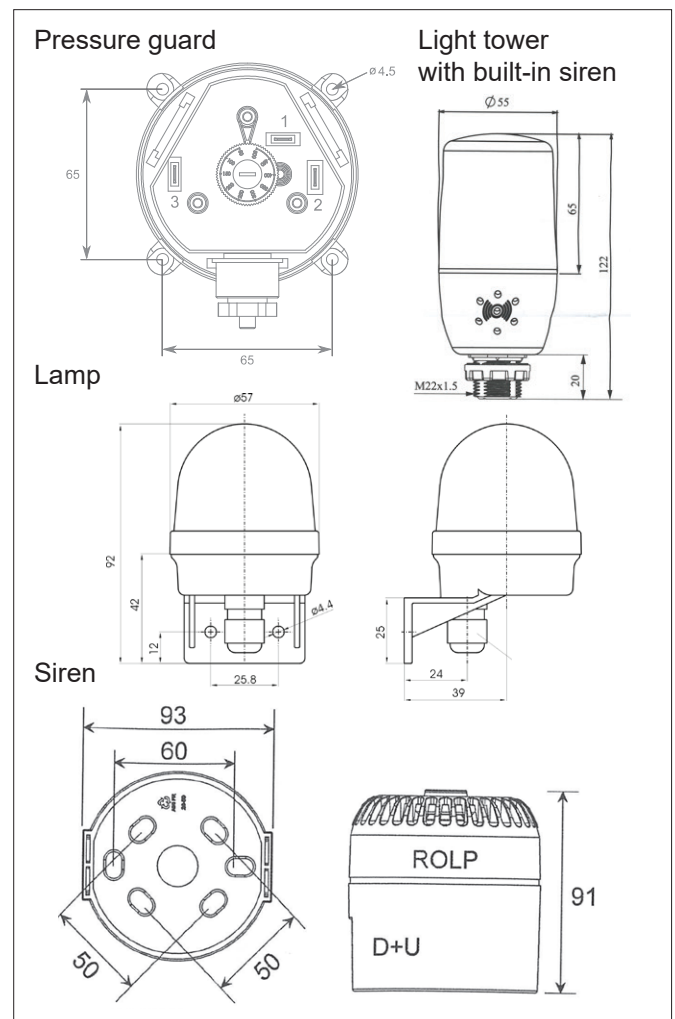
Deactive the product by disconnection the electrical mains. Dismantle compressed air pipes and other pipes or wires etc.

Dismantle plastic parts and dispose of it according to local regulations.

The packing material must be sorted according to local regulations in order to be able to reuse the material.

11.0 Dimensions

GeoGuard



12.0 Liability

Warranty

Geovent A/S grants a warranty for products, which are defective, when it can be proved that the defects are due to poor manufacture or materials on the part of Geovent. The warranty comprises remedial action (repair or exchange) until one year after the date of shipment.

No claims can be made against Geovent A/S in relation to loss of earnings or consequential loss as a result of defects on products from Geovent.

Wear on parts such as filter cartridges and hose is not included in the warranty.

User liability

In order for Geovent to be capable of granting the declared warranty, the user/fitter must follow this instruction manual in all respects.

Under no circumstances may the products be changed in any way, without prior written agreement with Geovent A/S.

Please refer to the current sales and delivery conditions at www.geovent.com

13.0 Declaration of conformity

The manufacturer: GEOVENT A/S
HOVEDGADEN 86
DK-8831 LØGSTRUP

Hereby declares that:

The product: GeoGuard
Model: GeoGuard 500
GeoGuard 2.500
GeoGuard 5.000

Complies with the relevant parts of the following directives and standards:

Directive 2006/42 / EC of the European Parliament and of the Council of 17 May 2006 on machines and amending directives 95/16 / EC.


This declaration is no more valid if changes are made to the product by others than the manufacturer.

Authorized to collect the technical file:

Lise Cramer

Date: 20.02.2023

Position: Director
Name: Thomas Molsen

Signature: 





GEOVENT

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