

MultiBox

source capture control panel



GEOVENT

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1.0 General safety precautions

IMPORTANT – Please study all the instructions before mounting and commissioning.

Please keep these instructions in a safe place and instruct all users in the function and operation of the product.

Installation and service should only be implemented after studying the wiring diagram thoroughly.

Avoid the dismantling of any factory-mounted parts, since it impedes the commissioning of the equipment.

All electrical installations must be carried out by an authorised electrician.

1.1 Danger

Dismantling parts on the MultiBox whilst in operation could be *deadly dangerous*.

Always disconnect the MultiBox from the mains, when removing the cover.

2.0 Adjustment of parameters

The MultiBox contains 8 software programs (530, 535, 540, 545, 550, 555, 560 and 565), which controls how the MultiBox behaves. The MultiBox is by default set to 560.

1. Connect the MultiBox to 230 Volts as shown in the diagram
2. The Display will show “P0” on power-up
3. Press “ENTER” and select the appropriate software program by scrolling with the “+” and “-“ keys and the press “ENTER” once more.
4. Shift to P1 (the set point parameter) by using the “+” key and the press “ENTER” – adjust the value to your desired set point pressure (in Pascals) and press “ENTER” once more.
5. Use the “+” until you get to P10.
6. Keep the “ENTER” key pressed until you get a beep (tells you that the changes you have made are now saved in EEPROM).
7. In case of failure – cut the power for at least 20 seconds and put it back on. The MultiBox is now reset and you must start the programming procedure again.

3.0 Basic installation of the MultiBox (program 560/565) Constant pressure regulation

1. Connect the long piece of the supplied 4mm hose to the “-“connection on the built-in pressure transducer. Connect the other end to a critical spot on the duct - often around one of the remotest arms/reels (in relation to the extraction fan). NB! Avoid bends!!
2. Connect the short section of the 4mm hose to the “+“connection on the built-in pressure transducer. Let the other end of the hose hang outside the MultiBox. NB! Avoid bends!!
3. Select the right software program (i.e. 560 for pressures between 200-10000Pa and 565 for pressures between 10-1000Pa) and adjust your set point (P1).
4. Connect the T4 terminal to an external switch (hood switch or reel switch) or short circuit it. T4 = Open => The MultiBox is disabled - T4 = closed => The MultiBox is enabled.
5. Connect the T10 terminal (0-10 VDC analogue output signal) to the frequency inverter.

4.0 Installation of the extra MultiBox features

These features are not needed if you only want to use the MultiBox for constant pressure regulation.

You can connect the NO/NC CTS-relay to the frequency inverter drive in order to disable/enable the drive. Function: T4 = Open => the CTS-relay is either closed or opened depending on the wiring - T4 = closed => the CTS-relay is either opened or closed depending on the wiring.

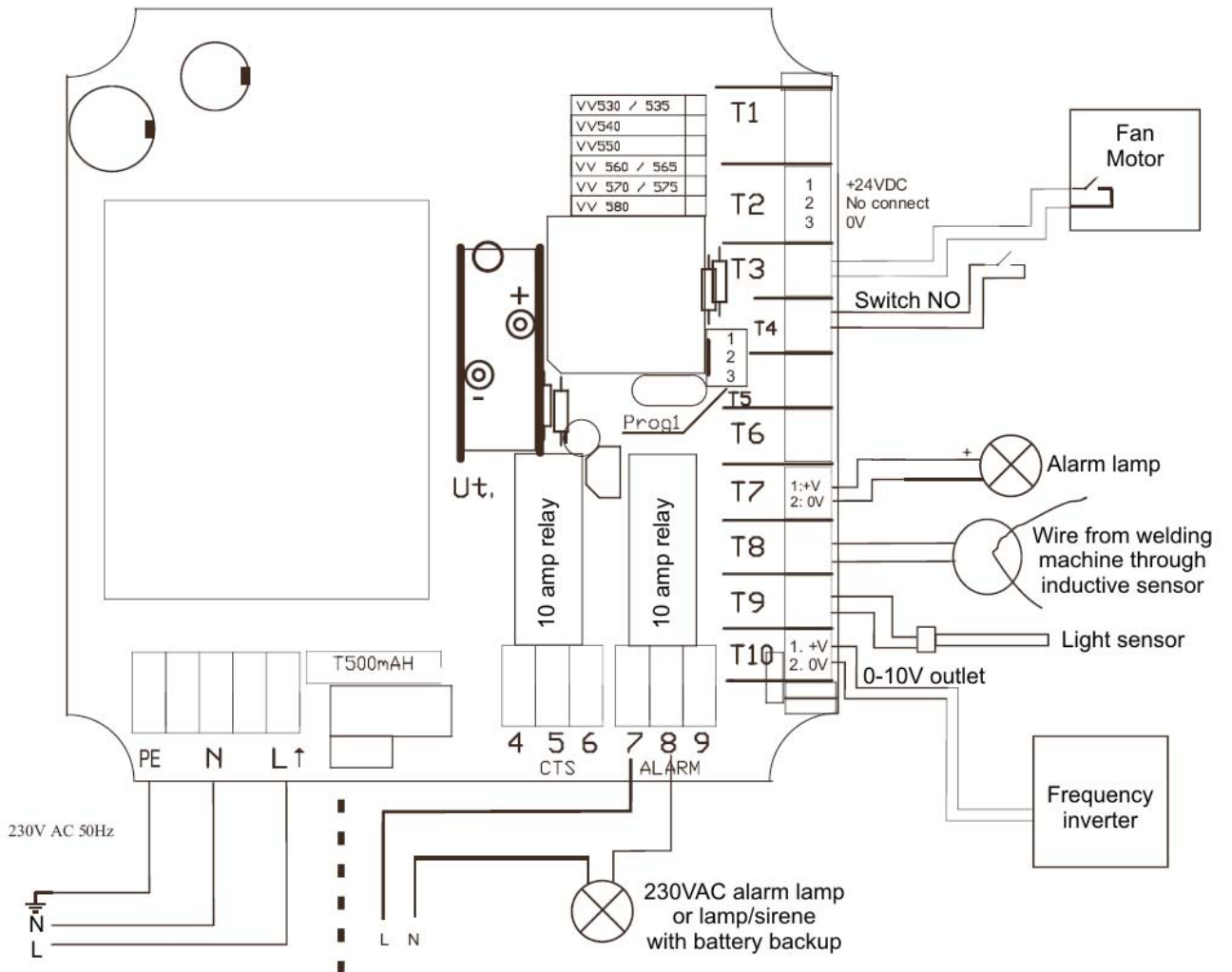
T5 and T6 can be connected to a 24 Volt Max 18W motor damper. The T5/6 are activated via T4, T8 or T9.

You can connect the T7 to an external alarm lamp (24 Volt Max 18W).

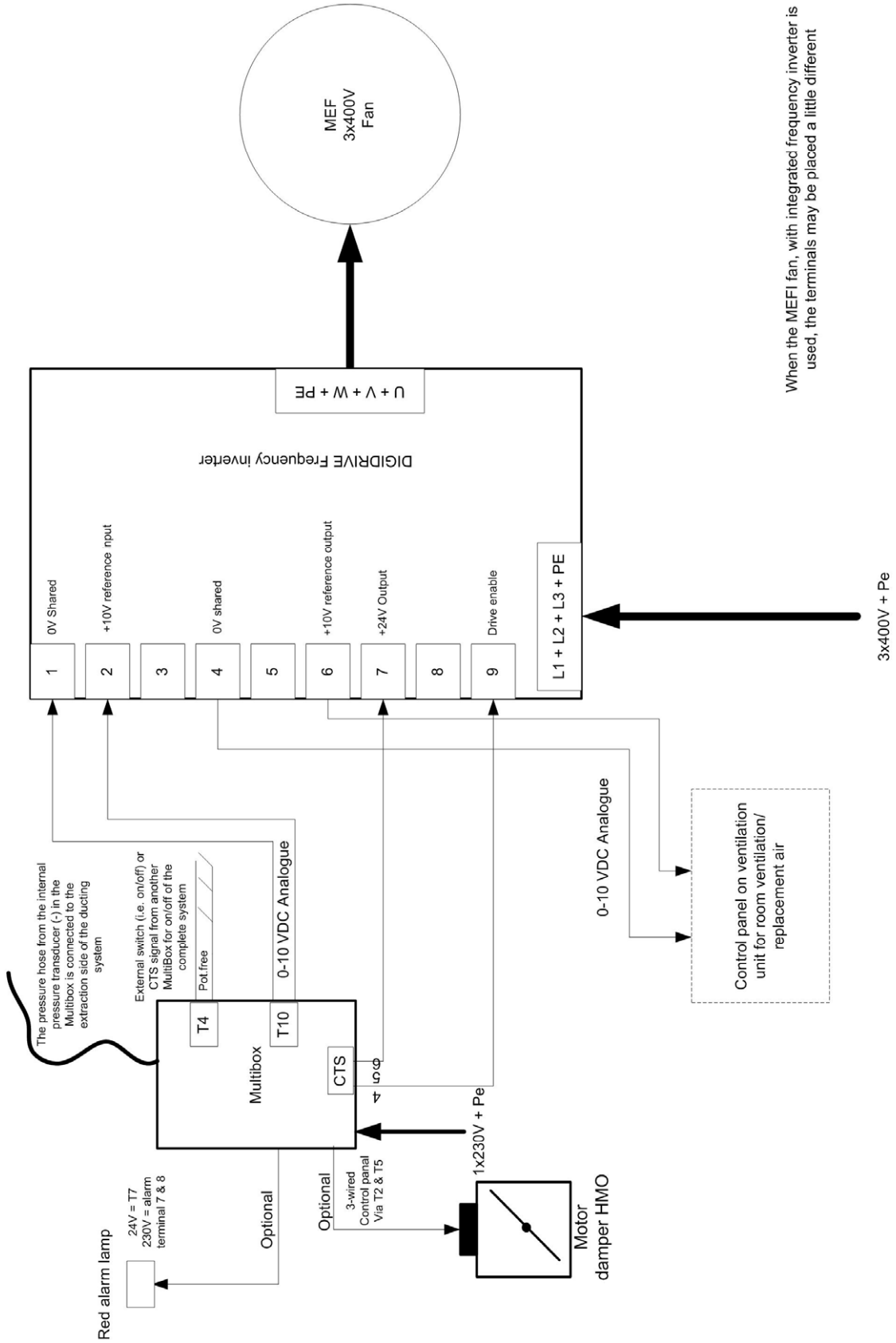
T8 can be connected to a power detector. (T4, T8 or T9 are all interrelated)

T9 can be connected to a IR-sensor (T4, T8 or T9 are all interrelated)

5.0 Wiring for Multibox



6.0 Wiring diagram for Multibox and DigiDrive



7.0 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 (reparation or exchange) until one year after 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.

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.

8.0 Declaration of conformity

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

hereby declares that:

The product: MultiBox

has been manufactured in compliance with the directions of the Directive Council of 14 June 1989 in common approximation to the legislation of the member states regarding machine safety (89/392/EEC amended by the directive 91/368/EEC) with special reference to appendix 1 in the Directive regarding basic health and safety requirements in connection with the construction and manufacturing of machinery.

GEOVENT A/S • HOVEDGADEN 86 • DK-8831
LØGSTRUP

Position: Managing Director
Name: Steen Molsen

Date: 20/05/2005

Signature: _____



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