Automatik

MultiBox IV

Geovent MultiBox IV is an advanced ventilation controller, which is primarily used for constant pressure regulation (PID / differential pressure) of a fan, and it also has a built-in alarm system, detecting the pressure and giving an alarm if the pressure falls below the set point.

The MultiBox IV is easy to install and has a user-friendly menu, which lowers the installation costs.

By using the MultiBox IV, the fan constantly adjust the speed according to the number of extraction points in use. It adjusts the speed according to the necessary air flow, whichresults in a lower energy consumption of the fan, and less heated (or cooled) indoor air being extrac ted.

Further the MultiBox IV can give control signals to the central control unit / general AHU, and thereby lower the air flow on the AHU (0-10V), as a slave of the airflow on the process ventilation system.

MultiBox IV is recommended for:

- Frequency controlled ventilation systems (0-10V)
- Control of EC-motors in ventilation systems
- Control of dampers and Membrane dampers
- Several switch options, for information to central systems, about usage, alarms, filter alarms etc.

Features:

MultiBox IV has a built-in pressure sensor (0 - 4000 Pa) and it is supplied with 3 outputs and 3 inputs. It can combine several supply air and extraction systems and regulate according to up to 3 set points. Furthermore, it has an acustic alarm.

User information is showed on a touch screen, which gives the user/installer information about the status of the system.

All functionalities on the MultiBox IV is controlled by a powerful micro processor with a built-in EE-prom. As the processor and EE-prom are built-in, the risk of loss of data is lowered.

All vital components are well shielded against external electrical eruption/noise with both filters and fuses. The unit is CE-marked and EMC-tested.

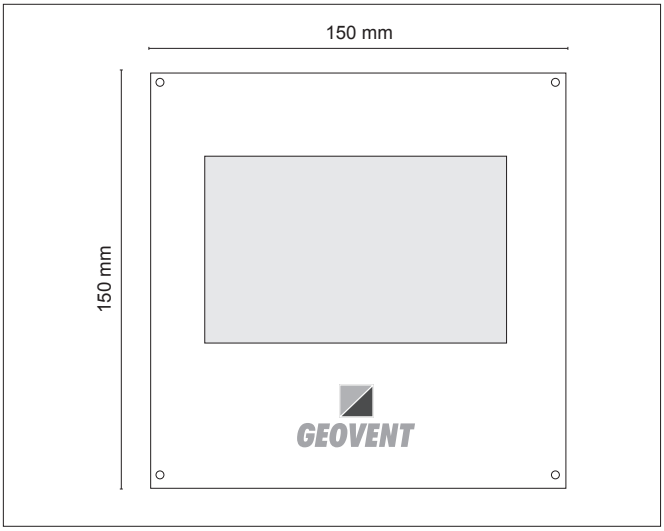
Protection class IP54.

MultiBox IV

Ordering table

Art. No.	Description
13-701	Meassure the differential pressure in the duct, and gives signal to the frequency inverter. Will regulate the fan speed according to the number of open valves/dampers. With touch color screen. All relays are 10 A, 250 VAC - 3 set points and 230 VAC supply. 2 analog outputs - 1 primary and 1 slave Measures: 150x150x60mm Weight: 0,55 kg

Dimensions



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An energy optimized system consists of the following

Components and has the following characteristics:

- All the dust and smoke has to be removed directly at the source
- The process ventilation is only active when there is a need
- All airflows are controlled according to the actual need
- Airflow is adjusted to the lowest possible level
- Room extraction and supply air is balanced
- The units capacity of the system is designed according to the required average airflow
- The extraction is monitored by alarm limits

With differential pressure control on the ventilation system, the total energy consumption is lowered significantly, since only the necessary air is extracted. The speed on the fan is adjusted according to the number of extraction points which are in use. Further to the important savings on the electrical and heating bill, the following advantages are obtained:

- Minimum size on the installed ventilation components
- Minimum air flow noise
- Minimum draft in the work area, as a result of lower airflows and air velocities

The cost for the extra control automatics will under most circumstances be covered by the savings on the running costs, and on the (smaller) components used. Within short time, the investment in an energy optimized ventilation system, will pay back.

When ordering 1 pcs. MultiBox IV:

1 pcs. MultiBox IV incl. PG glands.

1 pcs. 2 m measuring hose ø6/4 mm in 2 m length.

2 pcs. Rubber grommet for fixing the hose to the duct.

1 pcs. Manual of the MultiBox IV.