

SAFEGRANNY

VANDTÅGEANLÆGGET TIL BRANDBEKÆMPELSE

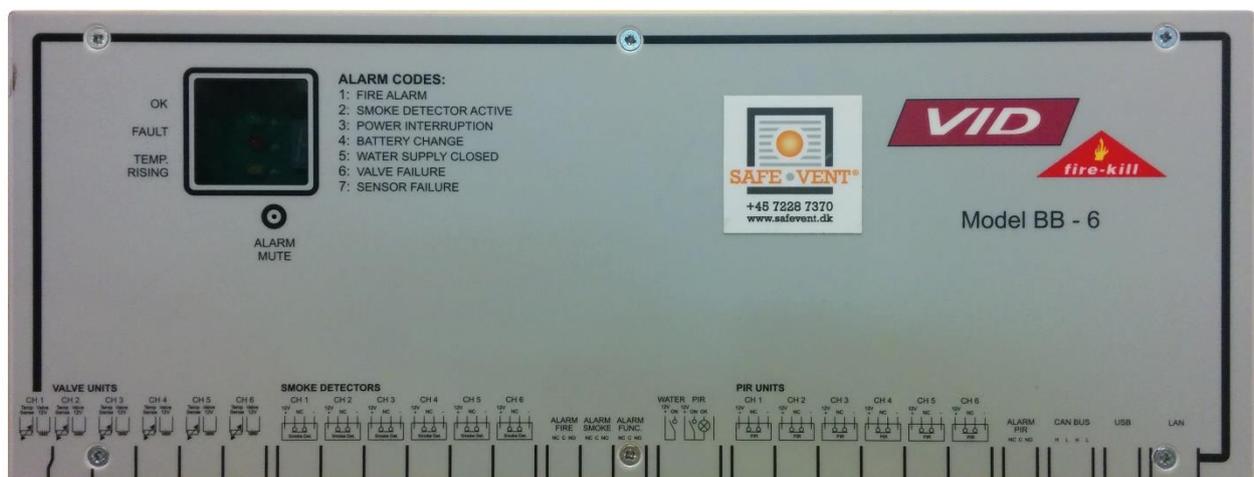
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1. THE PACKAGE CONTAINS

- 1 x Control Box, type Model BB-6
- Euro Power Supply: 230 Vac, 50 Hz

2. ADDITIONAL DESCRIPTION

- The Control Box is designed and developed to be able to detect a fire and activate up to several zone valves in the case of a fire. The Control Box will give one of three different alarm signals, (1) when detecting smoke, fire, (2) when a fault is detected within the electrical components or (3) when a fire is detected and the system activates
- The Control Box is designed to be flexible concerning the detection of fires. It can be programmed to detect differently on each of its thermal sensors, which are integrated in the Valve Modules. When ordering the system for specific projects, the systems will be preset for the right conditions.
- The Control Box has a built in hard drive, which registers all events taking place after the Control Box has been powered up. The events can be downloaded from the hard drive with software programmed specifically for the system, which can be bought on the side. It is also through the optional software that any changes to the system parameters are done. Additionally, the software is also capable of monitoring all system circuits, all measured temperatures, along with the status of the other Model BB modules. Computers can be connected to the Model BB through the

use of USB or Can Bus connection.

- Every Control Box can manage up to 6 valve modules and up to 6 smoke detectors. Valve modules and smoke detectors are considered a set as one should always install at least one of both in a zone.
- The Control Box has 6 electrical inlets on the right side of the cabinet and three inlets close to the Water Supply Units electrical inlet. These inlets are designed for the panel to be used as a burglar alarm as well. This function is an optional setting.

3. HANDLING THE SYSTEM

- The Control Box consists primarily of electrical components which are very sensitive to vibrations and sudden bumps. The Control Box should only be stored in locations with the following temperature specifications $20^{\circ}\text{C} \pm 15^{\circ}\text{C}$.
- The Control Box is protected by the robust cabinet, on which the electrical components have been fixed to. It is therefore recommended not to remove the lid of the cabinet during the installation of the Control Box.
- The Control Box should not be powered during installation. Also, the hydraulic system should not be supplied with water until the Control Box has been installed and after it has been checked that it has been installed correctly.

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- There are 26 internal electrical inlets, which are used to connect the Control Box to other system components, on the bottom of the Control Box. Connecting system components together should be done with the care, as not to break the inlet.

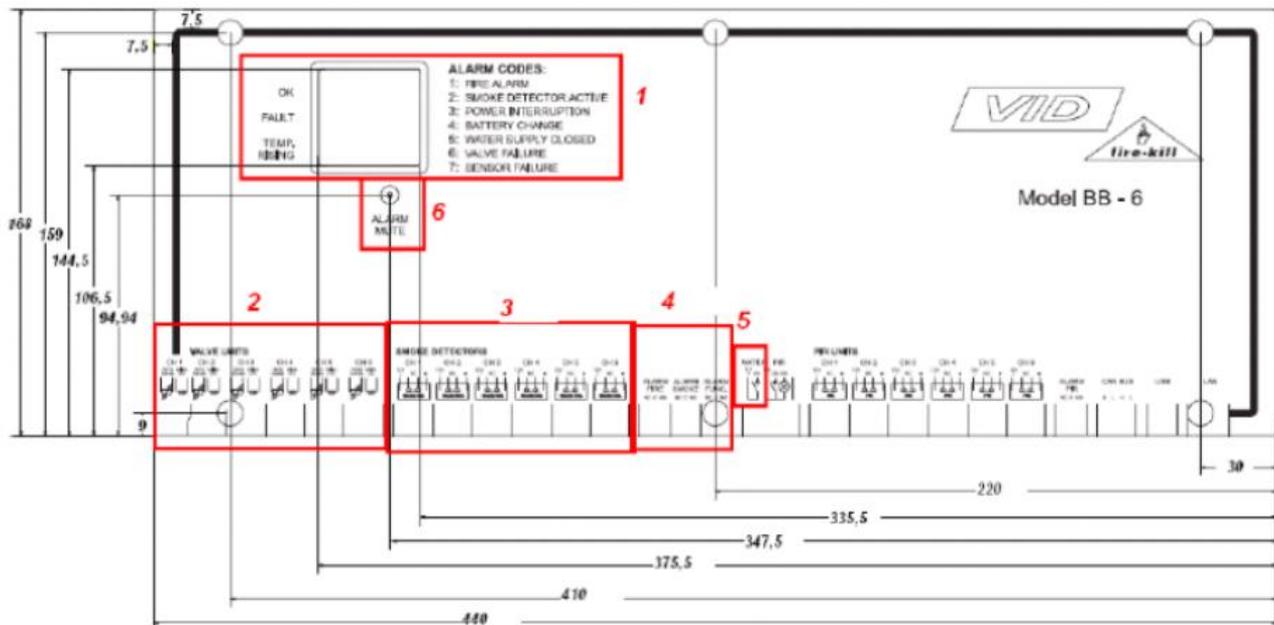


FIGURE A

Area 1: Alarm codes, display and alarm diodes

Area 2: Valve Connection

Area 3: Smoke Sensor Connection

Area 4: Potential free Alarm Relay

Area 5: Water Supply Unit Switch

Area 6: Buzzer Mute Button

- The Control Box has a built in 48 hour back-up battery. This battery is not delivered fully charged and should therefore be charged for at least 24 hours before use.

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4. INSTALLATION OF THE MODULE

POSITION OF THE CONTROL BOX

1. It is recommended, that the Control Box is installed somewhere accessible, away from vibrations and other kinds of harm.
2. There is a little display on the front of the box, which will display different alarm codes (These codes are explained later in the manual) if it is not possible to hook up a PC to the box, it is recommended that the Control Box is installed in a place where it is possible to see the display.
3. Smoke detectors and Valve modules are to be hooked up to the Control Box, thus needing the Control Box to be within range of the application.
4. The Control Box has been fitted with a Euro power supply inlet for a 230 Vac, 50 Hz power supply. It may therefore be a good idea to place the Control Box close to such a power supply.

INSTALLATION

1. The Control must not be supplied with power during the installation.
2. The back of the Control Box has been fitted with bracket holes, making it easier to mount the module. In the case these holes are used, it should be noted that the screw should not be screwed further than 5 mm into the Control Box.
3. Once the Control Box has been securely fixed to the wall, it is possible to connect the other modules to the Control Box.

4. Below is a list, mentioning the different modules of which can be connected to the Control Box.

- Up to 6 Valve Modules, either Type 2X or 1X.
- Up to 6 Smoke Detectors
- 1 Water Supply Unit
- 3 relay Alarm signals.

Figure B, on page 5, explains just how the modules are to be connected to the Control Box. One should make sure, when using the wire kit, that all the modules are connected correctly. It is important to pair smoke detectors to the valve modules placed in the same room.

On Figure A, which can be found on page 3, one can see the different parts of the Control Box' exterior.

! REMEMBER

Before connecting the 230 Vac, the black unconnected wire in the Control Box should be connected to the accumulator, which charges the battery. The wires should fit snugly into the electrical inlet of the accumulator. The reason for not connecting the accumulator to the battery during the assembly of the system is that if it was to be done before shipping out, the battery would be dead before reaching its destination, which could badly damage both the accumulator. It should be noted that if this is not done, there will perhaps be no back-up power.

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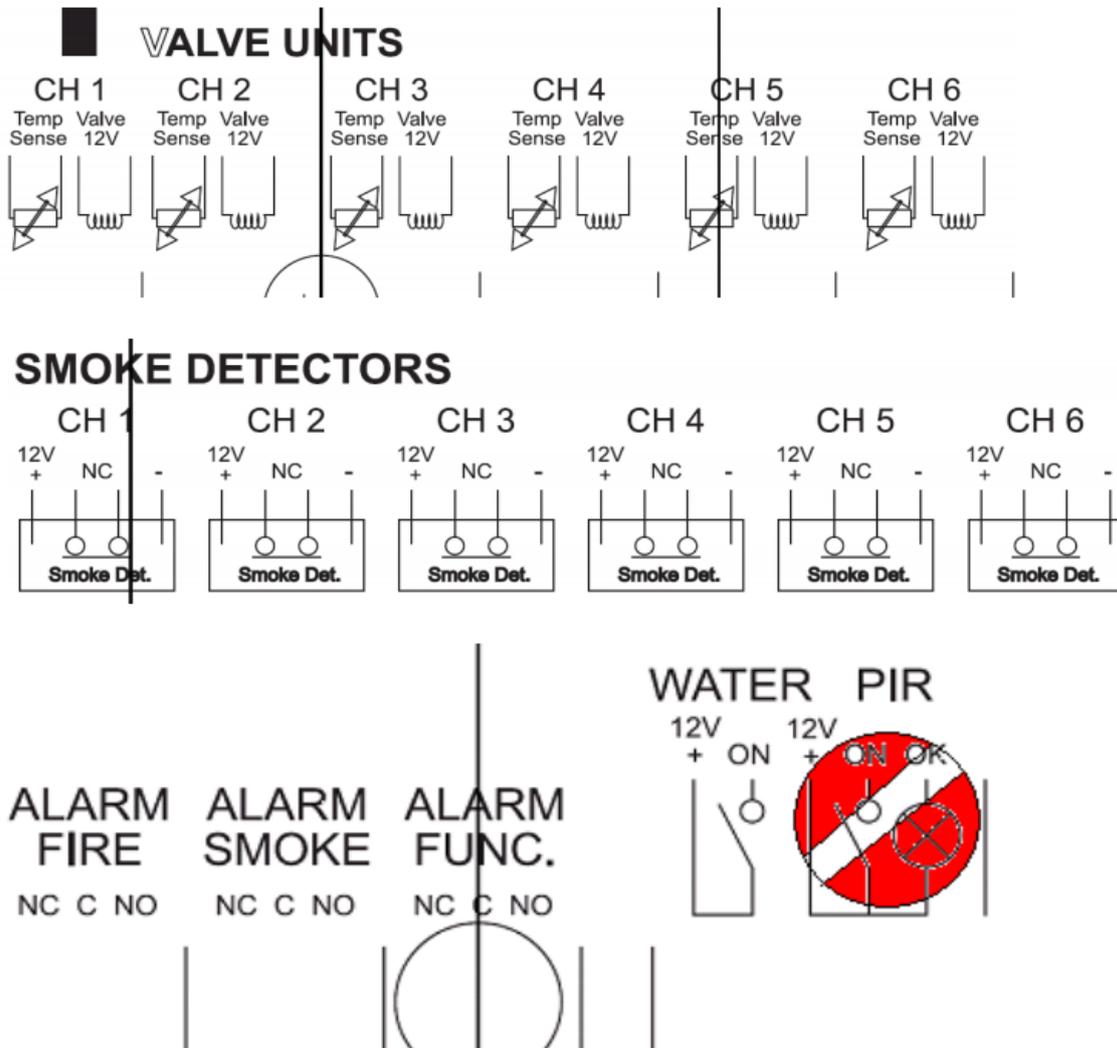


FIGURE B

CONNECTING VALVE MODULES AND SMOKE DETECTORS

1. When connecting the different modules, the wires of the Valve module should be connected to the inlets marked 'Valve Units, CH1-CH6'.
2. When connecting the Valve module, it does not matter, which valve unit should be connected

first, though one should make sure to pair up the smoke detectors with the nearest of the Valve modules. If there is less than six valve modules in the system; one can shut off the remaining inlets, when programming the system.

3. Technical information for Valve channels:
Wire 1: In- Thermal sensor.
Wire 2: In – Thermal sensor.

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Wire 3: Out- 12 VDC +
Wire 4: Out - 12 VDC÷

4. Technical information on smoke channels.

Wire 1: Out – 12 VDC+
Wire 2: In - NC
Wire 3: In – NC
Wire 4: Out – 12 VDC÷

CONNECTING WATER SUPPLY UNITS

1. Next to the Alarm switches, one will find the Water Supply Unit switch. The switch will emit an alarm depending on whether there is a water supply connected to the hydraulic system or if one of the valves is closed.
2. For the Water Supply Unit to work properly, a circuit of wires must be completed without any breaches. Technical information for Water Supply Units
Wire 1: Out -- 12 VDC+
Wire 2: ON

CONNECTING ALARM MODULES

1. There are three potential free relays, which can handle 50V, 100 mA next to the smoke sensor switches. These 3 relays gives a signal whenever smoke has been detected, a fire has been detected, or when the system is not operating correctly.
2. The relays can be connected to external hardware both as “normally open” and “normally closed” relays.
3. Along with the potential free relays, one may find a little buzzer, within the Control Box cabinet. The buzzer gives an alarm if one or more of the 3 earlier

mentioned alarms go off. The buzzer can therefore give the installer an idea of whether the system has been installed correctly, immediately after installation. The buzzer can be muted, by pushing the “mute” button on the front of the Control Box.

MONITORING

The Control Box has been designed to monitor itself and connected systems. This means that all circuits are monitored and if just one fault happens regarding the circuits, the Control Box will emit an alarm.

The Control Box monitors the following functions:

- The valve connections, monitors both the thermal sensor and the valve release element.
- The connections of the smoke detector.
- The connections of the Water Supply Unit.
- The supply of power to the system.
- Faults on back-up battery.

ALARM

Beside the buzzer and the external alarm-possibilities, Control Box has been fitted with a display on the front of the Control Box, which can display different alarm-codes. These alarm-codes consist of a number, codes which are explained on the front of the Control Box, next to the display, as shown in

ALARM CODES:

- 1: FIRE ALARM
- 2: SMOKE DETECTOR
- 3: ACTIVE POWER INTERRUPTION
- 4: BATTERY CHANGE
- 5: WATER SUPPLY CLOSED
- 6: VALVE FAILURE
- 7: SENSOR FAILURE

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figure A and in the above excerpt. The front of the Control Box has also been fitted with three diodes; red, yellow and green.

The green diode indicates that the system appears to be in good order; no fires and no faults detected. The red diode indicates that a fire or system fault has been detected. In case of a fire, the system will actuate the necessary valve modules.

The yellow diode indicates that the system has detected a rise of heat sufficient enough to put the system in alert. The rise of heat may be an indication of growing fire.

5. MAINTAINING THE SUBJECT

The Control Box surveys itself, and in the occurrence of a fault, will omit a fault signal. It is, therefore, not necessary to maintain the Control Box, except for a yearly check-up, wherein all the valve units should be checked along with the smoke detectors and the power supply to the Control Box and the back-up battery.

The back-up battery should be replaced every three years.

6. FOR MORE INFORMATION, PLEASE CONTACT

For more information, please contact Safevent.

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