

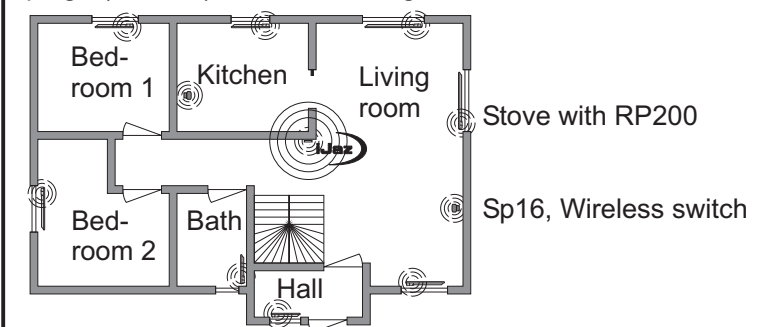
## 1 Welcome to the iJaz wireless control system.

The system controls BEHA Convactor Panel Heaters type P and L. In addition to the iJaz Central Control Unit each heater needs a RP 200 Radio Plug for wireless communication between the central control unit and the heater. A wireless switch (SP 16) for switching on and off other appliances like lights, coffee maker, hot water tank etc. is available. The SP 16 is designed for DIN wall power outlets.

iJaz can control up to 16 zones and each zone can control an unlimited number of heaters and/or other appliances respectively.

A zone can be a heating zone e.g. a living room or a switch zone like the household coffee maker. Each of the 16 zones has a unique address, preventing the possibility of a conflict with another iJaz system. Each zone can have unlimited numbers of units connected.

When installing the system start by planning all zones you want the central unit to control. Install the heaters and the radio plugs (RP 200). When installing the heaters use the heater



The sketch shows iJaz with six heater zones and two switch zones. The living room is split into two zones; one zone covering three heaters and the other covering one switch.

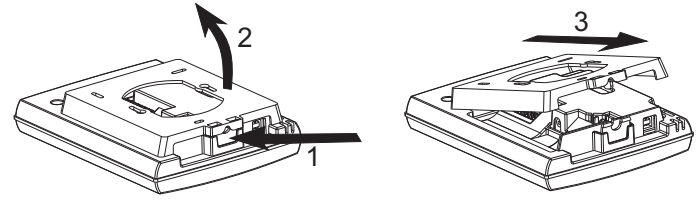
Installation Instructions. To achieve the best possible communication it is recommended installing the iJaz central control unit in the centre of the house or flat. The wireless connection of the iJaz central control will vary depending on how many walls and types of walls the signal will have to penetrate. The distance in open air is up to 300 metres.

Two independent programmes should be prepared. **Normal programme:** This programme is for daily use and should contain temperature reduction periods for each of the heating zones. It is possible to programme each day differently with minimum periods of 15 minutes. All heating zones have a factory installed default weekly programme.

**Away from home programme:** This programme is used for longer periods of absence, typically holidays, business trips etc. Programme each heating zone to be as cold as possible to save maximum energy. If you choose to leave the room temperature at 5 °C or switch off the heaters completely in some of the rooms please remember to set your return time to a few hours earlier than your return. It takes some time to bring the room temperature back to a normal level.

### Installation.

Remove the wall bracket like this: 1. Press the lock. 2. Tilt it upwards. 3. Slide the bracket off as shown.

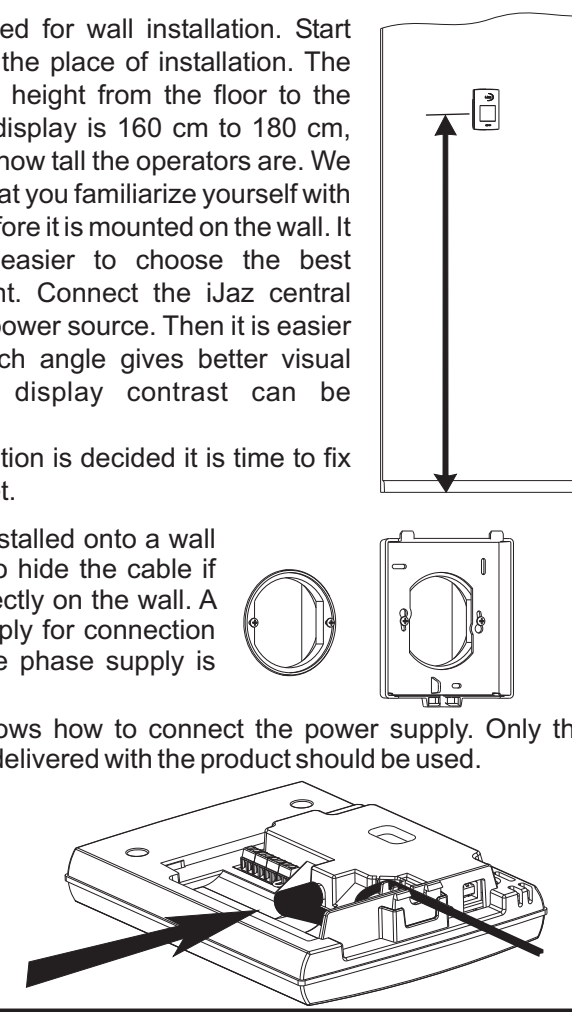


iJaz is designed for wall installation. Start with selecting the place of installation. The recommended height from the floor to the centre of the display is 160 cm to 180 cm, depending on how tall the operators are. We recommend that you familiarize yourself with the product before it is mounted on the wall. It will make it easier to choose the best possible height. Connect the iJaz central control to the power source. Then it is easier to decide which angle gives better visual display. The display contrast can be adjusted.

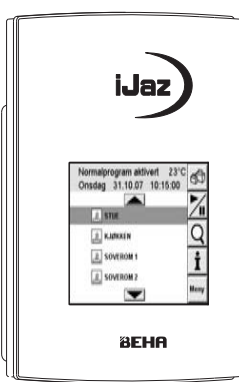
When the location is decided it is time to fix the wall bracket.

iJaz can be installed onto a wall junction box to hide the cable if desired or directly on the wall. A 9V power supply for connection to 230V single phase supply is included.

The figure shows how to connect the power supply. Only the power supply delivered with the product should be used.

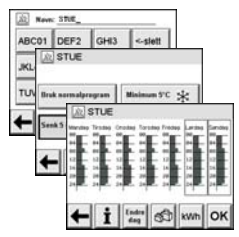


## IJAZ CENTRAL CONTROL USER INSTRUCTIONS



### Save energy!

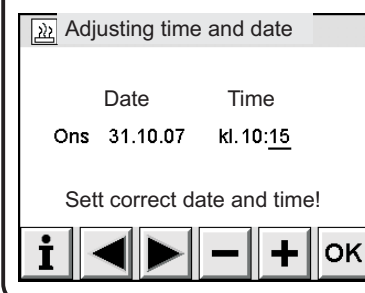
Wireless control system for BEHA panel heaters. The iJaz system is simple in design and can be installed without professional assistance. Control 16 heater or switch zones, touch screen operated. Each zone can control an infinite numbers of heaters or switches. The iJaz central unit has a built in thermo meter with output for frost alarm. Possible to connect a GSM receiver for remote control.



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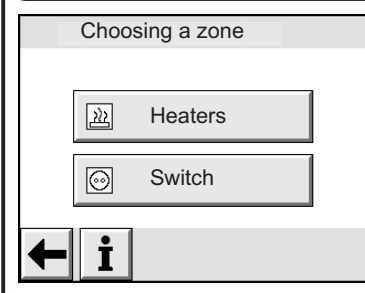
## 2 Adjusting time and date



When starting iJaz the correct time and date must be set. The time and date can also be entered in "Menu Settings". How to set time and date: use the arrow keys to move left and right. The cursor will move and indicate the value to set using the + and - keys. When setting is completed press OK. (The display is pressure sensitive and works as a keyboard.)

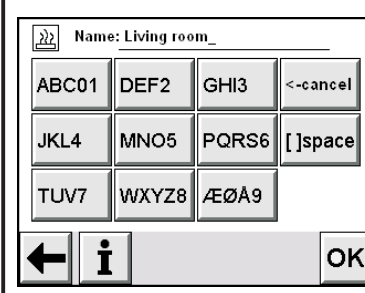
When pressing **i** key the user information appears. The **i** key is present in almost all the screens giving explanations to the current picture. It makes the iJaz simple to use.

## 3 Zone, type and name



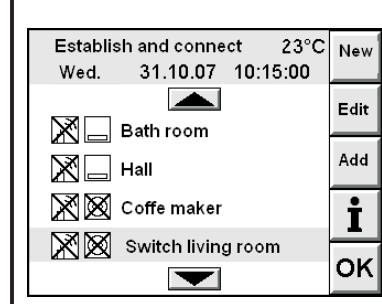
After time and date is set the system moves directly to choosing a zone. The planned zones must be entered into the programme. The main screen will show the zones in the same sequence as they were entered, first on top, next as second etc.

A zone can control either heaters or wireless switches, not both. When a zone is established a choice must be made to whether it is a heater zone or a switch zone. Zones are made under "Menu" and "Zones". The icon indicating a heater zone is illustrated as a heater radiating heat waves. The icon of a switch zone is illustrated as a wall socket.



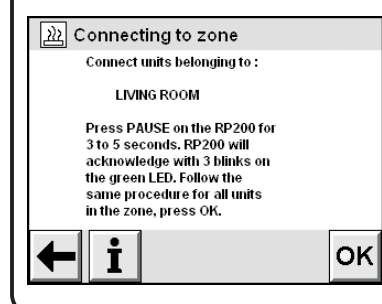
A heat zone indicated by the icon in the upper left corner is established. After the icon is the chosen zone name. The writing keys are similar to and used in the same way as the key pad of a mobile phone. Press OK when the zone name is entered. Many of the windows have a return key, bringing you back to the previous screen.

## 4 Establish and connect zones



After the first zone has been entered with a name it will appear on the screen. Additional zones are established by pressing "NEW". Repeat the procedure until all planned zones are entered. Incorrect entries can be corrected by using the "Delete/change" key. From the main screen you will find the procedure for "Establish and Connect Zones" when pressing key "Menu" and "Zones". You may at any time add new zones, delete zones and change the name of zones.

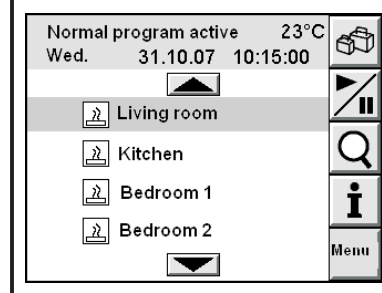
The symbol  shows that a connecting attempt has not been made.



When the "Connect" key is pressed iJaz starts transmitting its unique code for the chosen zone. The code is transmitted continuously until "OK" is pressed. The icon in the upper left corner shows it is a heater zone. A heater or a switch is connected to the chosen zone by pressing the "PAUSE" button on the RP 200 or SP 16 for 3 to 5 sec. If the connection is successful the unit will give a acknowledgement signal by 3 blinks of the green LED. See RP 200 and SP 16 User Instructions. After connecting all heaters or switches in the zone, complete the procedure by pressing "OK".

Repeat the procedure for the remaining zones. It is possible at any time to connect additional heaters or switches to a heater or switch zone by pressing "Connect" for the wanted zone. Then press "PAUSE" on the RP 200, SP 16 respectively.

## 5 Main Screen



This is the main screen after zones have been established and connected. The upper grey field contains information about the current programme mode, time and date and the room temperature where iJaz is installed. In this main screen the zones from our example have been connected. More zones will appear on the screen when using the up and down keys.

## 6 Symbols explanations

The symbols appearing in the zones are:

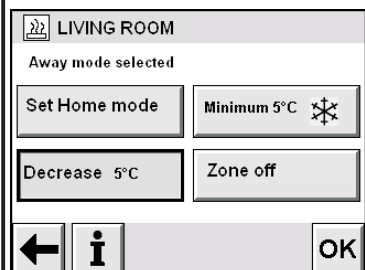
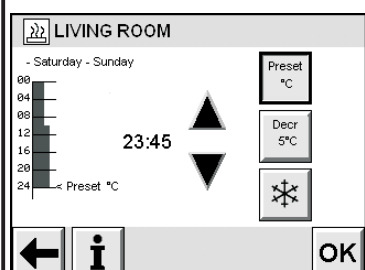
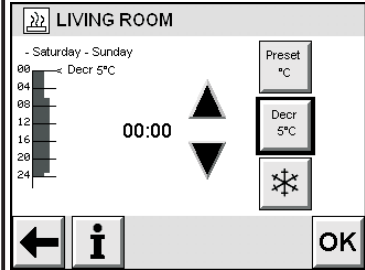
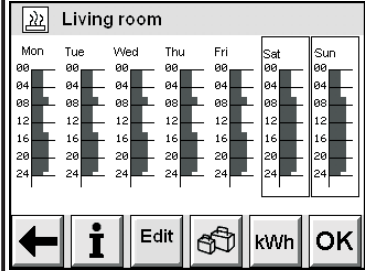
- Indicates the temperature setting of the heater is being maintained. The communication LED on the RP 200 will show a steady green light.
- Indicates lowering the temperature by 5 °C room temperature from the set thermostat temperature. The communication LED on RP 200 will show a blinking green light.
- Frost safeguard. Maintaining a minimum of 5 °C in the room. The communication LED on RP 200 will show a fast blinking green light.
- Heater off. The heater will not produce any heat. The communication LED on RP 200 will show an orange light. This function can be used with the "Away from home" programme only.
- Switch is on.
- Switch is off.
- Shows a zone in PAUSE mode. Heaters connected to this zone will operate to the temperature set. If the zone is a switch zone the automatic on/off functions are cancelled and the set PAUSE mode prevails.
- Indicates that an attempt to connect the zone has not been done.

## 7 Available units



## 8) Programming of zones - Heater Zone

Touch on the main screen while the zone you want to programme is marked. The first screen appearing shows the setting for one week. Our example shows a heating zone. How to change the setting on Saturday and Sunday: Touch Saturday and Sunday. A frame will show the days chosen. Press "Change Day".

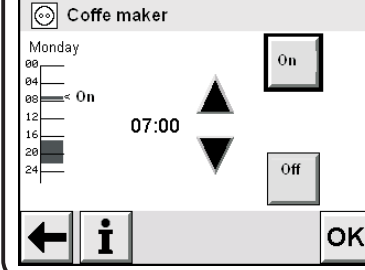
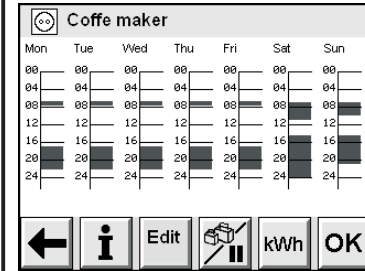


The chosen days will appear. The top of the graph bar shows the time is 00 hrs, the bottom is 24 hrs. Use the up and down keys to move vertically on the bar. One of three function settings is possible: Set Room Temperature, Lower 5 °C or Frost Safeguard (snow crystal). If none of the three possibilities have been selected nothing will change when you move the cursor up or down the graph bar. If one of the keys is pressed the selected function will be entered into the programme next time the up or down arrow keys are pressed. A bold frame around the function key shows which key is selected.

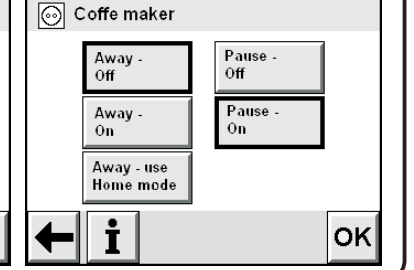
When pressing the suitcase icon "Away from home" (first screen of the zone programme) you can select the setting of the absent zone: Since this is a heater zone the selections available are: - normal programme, lower 5 °C, frost guard or switch off. If "Normal" is selected it means that the normal programme will be in use when "Away from home" mode is activated.

"kWh" key, please see explanation in section 13

## Programming of zones - Switch Zone

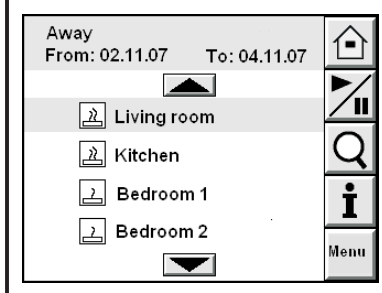
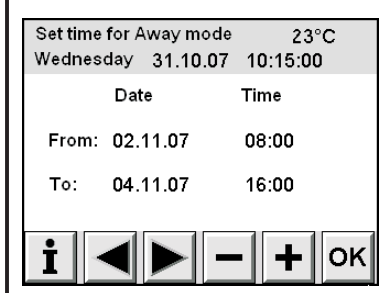
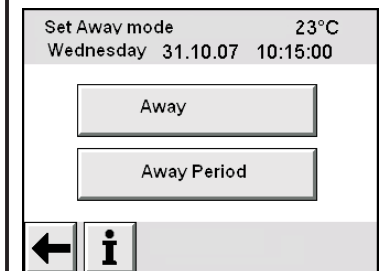


An on/off switch zone is programmed the same way as a heater zone, refer to introduction in section 8. When "Suitcase/Pause" button is pressed the switch zone mode can be selected if the zone is activated by the "Away from home" or "Pause" programme.



## 9) How to activate "Away from home" programme

Press in main screen when "Away from home" is going to be activated. You can select between "Pending further action" or "Limited period". "Pending further action" is selected when time of return (coming home) is uncertain. The "Away from home" programme will remain activated until normal mode is again selected.

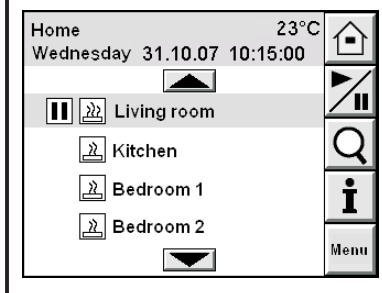
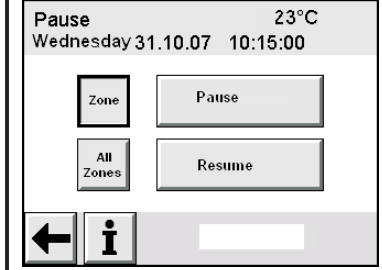


If "Limited Period" is selected the time and date from/to has to be set. iJaz will thus automatically select the "Away from home" programme for the specified period. The date and time from/to is set as described in section 2. Use the left/right arrows and the +/- keys. Press OK when the time frame is set.

After programming the "Away from home" setting this is how the screen may look. The "Suitcase" icon has been replaced by the "House" icon, indicating normal programme mode. To delete or change the "Away from home" programme press , then press "Activate Normal" or "Modify away from home".

## 10) Pause function

Press on the main screen for activating pause.



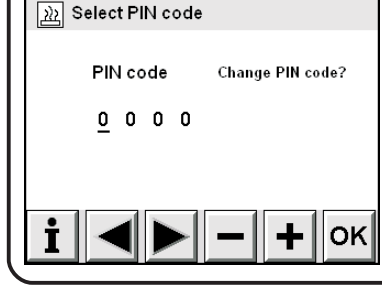
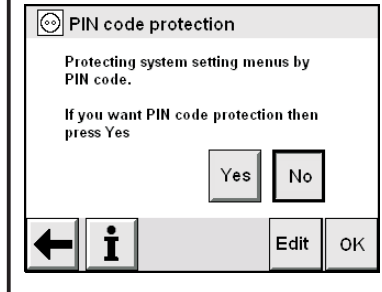
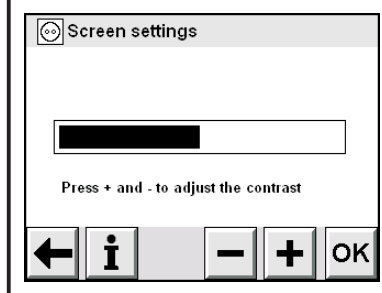
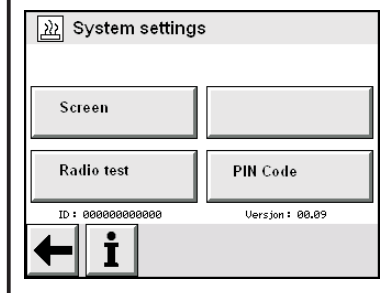
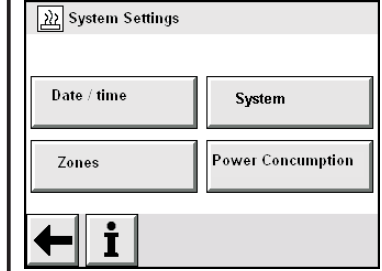
One or more zones can be set to pause mode. Pause mode can be used when you are at home or at a time when you are normally away. Select the zone you want to set to pause mode. The screen will show the possibilities between activating the selected zone only or all zones. If you want all zones in pause mode press "All zones" and then "Activate". The "Pause" symbol will appear in front of the zones in the main screen.

In order to turn off the pause mode press "Pause" button, then press "Selected zone" or "All zones" (depending on the previous choice) and then "Deactivate".

The pause mode does not have any automatic delete function. If "Pause" is activated it will be in pause mode until it is deactivated. If, on the other hand, the pause mode on external units (RP 200 and SP 16) that are connected have an automatic deactivating function when they are in use. You will find more information on RP 200 and SP 16 pause functions in their user manuals.

## 11) Menu settings

Press on the main screen to enter main menu for settings.



The main screen gives you four possibilities: "Date/time" is for setting the correct date and time. Press "Zones" for adding or changing zones, refer to section 4. Press "Consume" for checking the electricity consumption for the last 24 hrs, week or month. This will only be possible if the electricity metre is connected to the iJaz system. Please see section 13 about saving electricity.

Press "System" for adjusting the screen contrast, carry out a radio transmitting test or establishing a pin code for protection of the settings. When "Radio Test" is pressed iJaz will transmit a test signal. All units connected will pause and the pause LED will blink.

To establish a PIN-code protection press the "YES" key. Then press "SET" key to activate. At this point you may choose a PIN-code by entering four digits, then press "OK". When the PIN-code is activated any change of settings will have to be initiated by the code. When the code has been entered the system will be open for changes for as long as the backlight is on, meaning you do not have to enter the code for every change. The backlight will be on for approximately 3 minutes after the last key operation. Then the code is activated again. (As a backup the code 1917 will always work in case the set code is forgotten.)

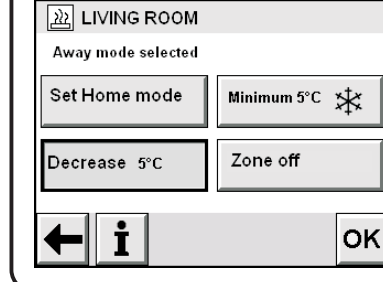
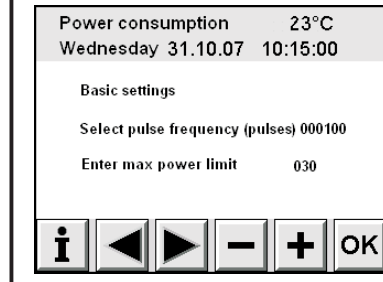
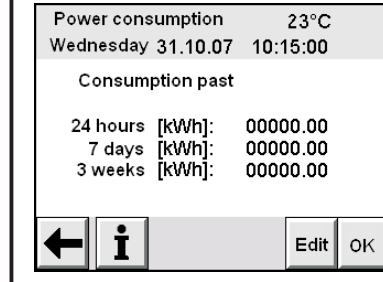
## 12) NB!

At room temperature below 10 °C the LCD screen will appear darker and the reaction time will be slower.

If a heater zone is programmed to be switched off with the setting "Switch zone off" the zone will not be protected by "Frost Safeguard".

## 13) Saving energy at excess consumption

Press And This function will only work with a newer type of electric metre having pulse connection. Connecting the electric metre to the iJaz will have to be done by a certified electrician only!

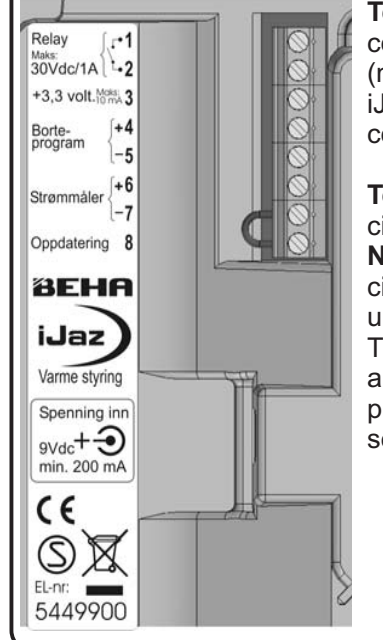


When pressing "SET" the impulse frequency of the electric metre has to be entered as well as the excess consumption limit. iJaz will show the consumption during the past 24 hrs, the past seven days and the past three weeks.

Control of excess consumption can be achieved by pressing the "kWh" key in the zone screen. The possibility to select mode of the zone when excess consumption occurs can be programmed separately for each zone. It works basically as the "Away from home" programme. If the heat zone of the living room is programmed to lower room temperature 5°C it will be activated when iJaz detects excess consumption.

## 14) Connections

On the backside of the iJaz unit the connecting points are:  
**Terminal 1 and 2:** Frost detector alarm. This exit connects if the temperature goes below 5°C. The temperature is measured by iJaz. This function can be connected to the house alarm system.  
**Terminal 3:** Not in use, the system is prepared for future functions not available today.  
**Terminal 4 and 5:** Connecting terminal 4 to terminal 5 will start the "Away from home" function. An external switch can be used for this purpose. The external switch can be a GSM controlled switch which can be used for starting the heaters from a mobile phone (SMS).



**Terminal 6 and 7:** For connection of the electric metre (metres with pulse terminal). iJaz will register total consumption.

**Terminal 7 and 8:** The short circuit between 7 and 8 **MUST NOT BE REMOVED**. The short circuit is to be removed when updating the iJaz software only. This should be done by authorised personnel only. A USB port is available for regular service functions.