

theben

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VARIA

VARIA 824 KNX

VARIA 826 KNX

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Installation and
operating instructions
Room thermostat

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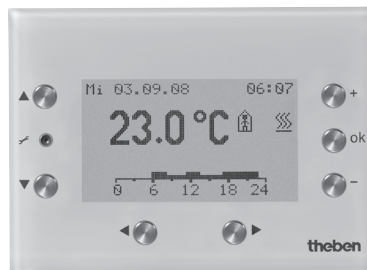
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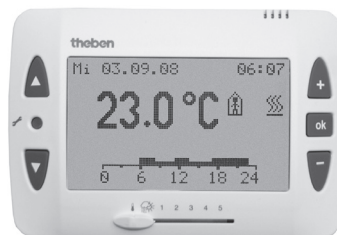
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VARIA 826



VARIA 824

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Basic safety instructions

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WARNING

Danger of death through electric shock or fire!

➤ Installation should only be carried out by professional electrician!

- The device can be installed in flush-mounted sockets in walls and is designed for use in a normal environment; device complies with EN 60669-2-1
- The professional installation of bus lines and commissioning of devices requires compliance with the provisions of EN 50428 for switches or similar installation equipment for use in building construction technology. Tampering with, or making modifications to, the device invalidates the guarantee

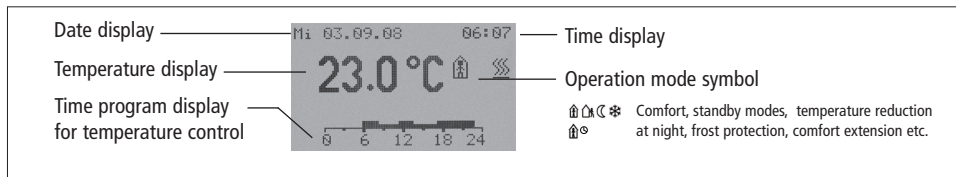
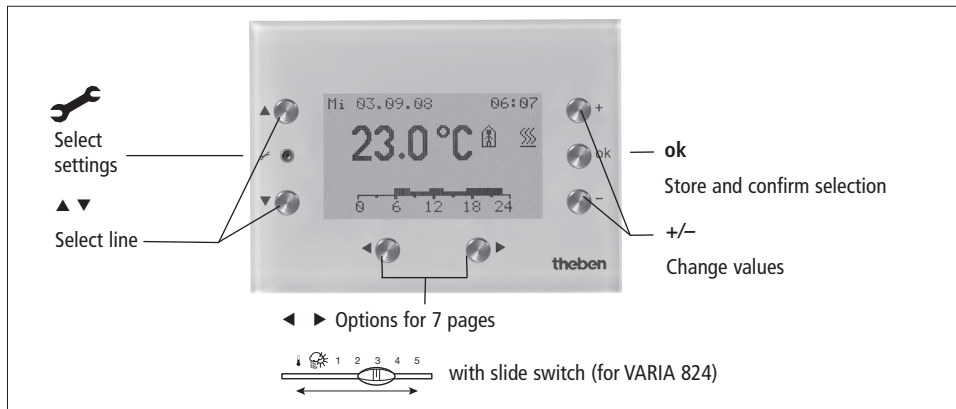
Designated use

- VARIA controls all room functions such as heating, air conditioning, ventilation, lighting and sun protection
- Only to be used in closed, dry rooms (house, office, conservatory etc.)

Disposal

Dispose of device in environmentally sound manner

Screen and keys



Overview

For daily use ...



➡ **Page: Room temperature control**



➡ **Page: Weather data**



➡ **Pages 1-5: freely programmable pages via ETS**

For occasional use ...

GB



Settings:

- Date and time
- Setpoint values
- Switching program
- Language
- Display
- System
- End settings

Connection/installation



WARNING

Warning, danger of death through electric shock!

- Must be installed by professional electrician!
- Disconnect power source.
- Cover or shield any adjacent live components.
- Ensure device cannot be switched on!
- Check power supply is disconnected.
- Earth and bypass.
- Ensure installation height of 1.5 m.

Installation

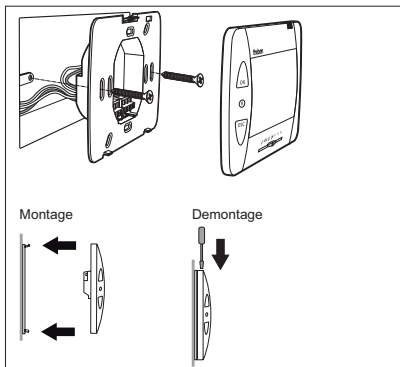
All 3 lugs on the device (top and bottom) must be firmly clicked into place.

- Remove protective film.

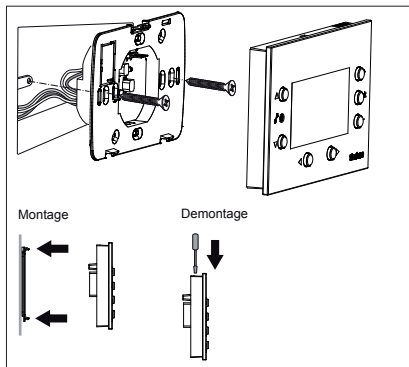
Dismantling

- Press down on the top of the device with a screwdriver to release the device from the wall.

VARIA 824



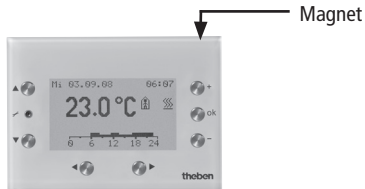
VARIA 826



Program physical address

- Move a magnet along the right upper side of the device.
 - The programming LED lights up.
 - VARIA is in program mode

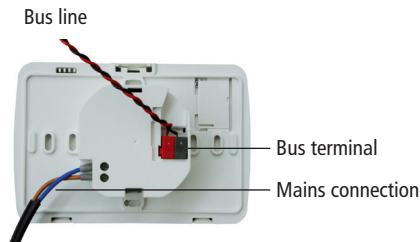
The program mode can also be set using the settings menu under system.



Start-up, diagnostics and configuration are handled by ETS 3 (KNX tool software).

Bus connection/mains connection

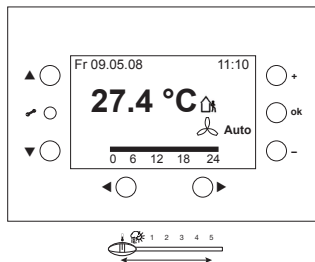
- Open flap.
- Plug bus line into device.
 - Ensure correct polarity.
- Plug bus terminal into device.
- Close flap.
- Mains connection (optional)



User operation

Start-up

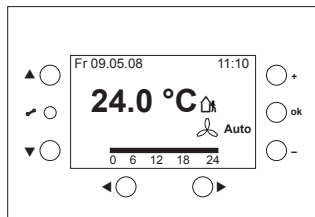
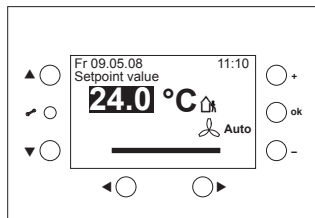
Date and time are preset ex works. Up to 7 different pages can be displayed. The pages displayed depends on the programming by a professional electrician. Please refer to the product handbook for detailed descriptions of functions (at www.theben.de).



Page– Control of room temperature

Control of room temperature (RTR) for heating and cooling

- Press ◀ ▶ button or
Place slide switch in position 1.



Page– Control of room temperature

Room temperature/change setpoint value

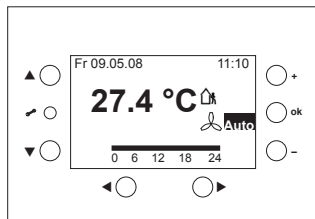
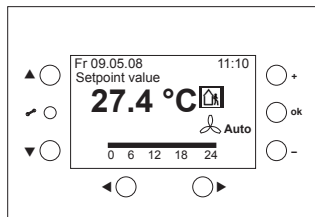
- Use ▲ ▼ to select temperature display.
- Use + or – to set desired setpoint value.
- Confirm with **ok**.

Hot key function

Special function for easy switch on/off
(e.g. lighting) when VARIA is in idle mode.






Function: The light can be switched on or off by pressing the **+/ok** or **–** buttons.

This function must be activated by a professional electrician.




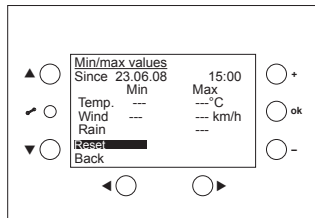
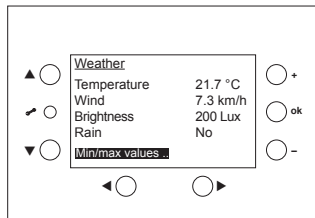
Page– Control of room temperature

Change operation mode

- Use ▲ ▼ to select operation mode.
- Use + or – to set operation mode. You can choose between 5 operation modes: Comfort mode , standby mode , temperature reduction at night , frost protection  and comfort extension .
- Confirm with **ok**.

Comfort extension is not possible if presence detectors are used.

The following appears in the display when a fan coil-actuator is connected . You can choose between Auto, On/Off or fan stages 1, 2, 3.



Page– Weather data

Display for temperature, wind speed, brightness and rain values (received by weather station)

Display of **Min/max values**

➤ Use ▲ ▼ to select **Min/max values**.

➤ Confirm with **ok**.

The minimum and maximum temperature, wind and rain values are displayed from the start of the recording operations.

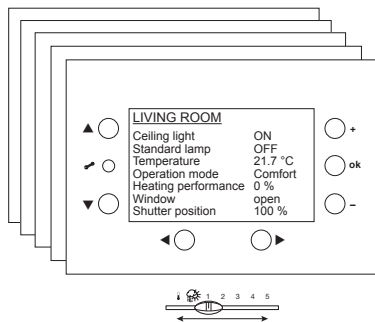
Min/max values

➤ Use ▲ ▼ to select **Reset**.

➤ Confirm with **ok**.

The record is deleted and restarted.

The **Min/max values** function only appears if it is selected by the professional electrician.

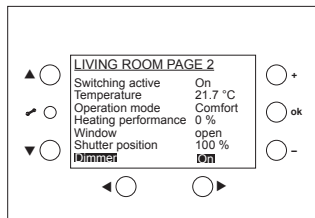
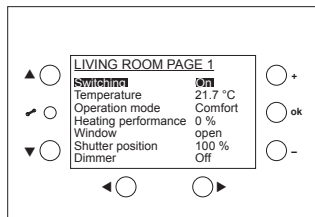


Pages 1-5 – freely programmable pages via ETS

Display of values and control of different functions in 8 lines: Light settings, sun protection etc. (up to 40 values/functions).

The texts are set by the professional electrician and appear automatically in the display.

- Use ▲ ▼ to select required line.
- Change with + or –.
- Confirm with **ok**.



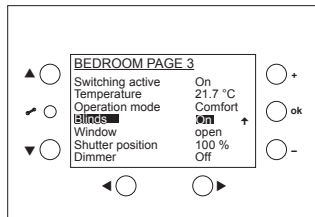
Pages 1-5 – freely programmable pages via ETS

1. "Switching" example

- Use ▲ ▼ to select **Switching**.
- Press + or –. The displayed value changes, a telegram is sent.
- Press **ok**. The displayed value is sent.

2. "Dimming" example

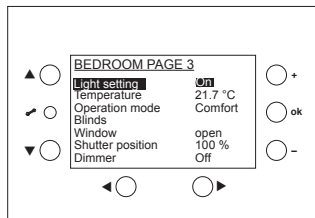
- Use ▲ ▼ to select **Dimmer**.
- Briefly press+ or –. The light is **On/Off** switched.
- Hold down the + or – button. The display shows ↑ ↓: The dimming telegram is sent.
- Press **ok**. The displayed value is sent.



3. "Blinds" example

- Use ▲ ▼ to select **Blinds**.
- Briefly press + or –. The blinds slat position is changed.
- Hold down the + button. The display shows ↑ ↓: The corresponding value is sent.

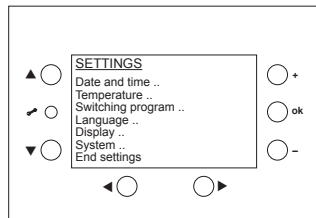
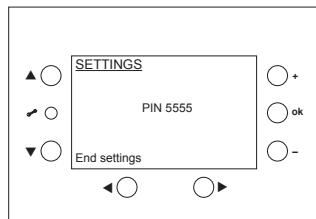
A professional electrician can adjust the setting so that the blinds stop once the button is released or when **ok** is pressed.



4. Example: "Temperature", "Light scenes", "Percentage values" etc.

- Use ▲ ▼ e.g. to select **Light setting**.
- Briefly press + or –.
- Press **ok**. The displayed value is sent.

Professional electrician operation



Settings

Press  button.

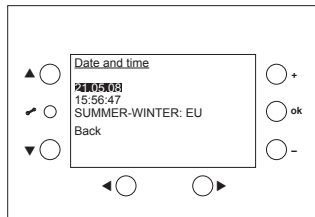
Settings – Enter PIN

The PIN code appears first (if set by professional electrician).

- Enter the numbers with **+** or **-** and confirm with **ok**.

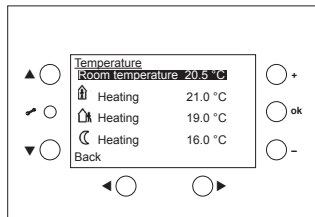
If the PIN-Code is entered correctly, you return to **settings**.

- Use **▲ ▼** to select required line.
- Confirm with **ok**.



Settings – Set date and time

- Use ▲ ▼ to select required line.
- Confirm with **ok**.
- Change value with + or –.
- Confirm with **ok**.



Settings – Set temperature

Set room temperature: Alignment with current room temperature

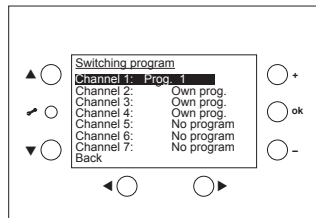
- Use ▲ ▼ to select required line.
- Change value with + or –.
- Confirm with **ok**.

Each value can be set separately. There are, however, minimum/maximum valid differences between the values that are automatically adjusted.

Settings – Set switching program

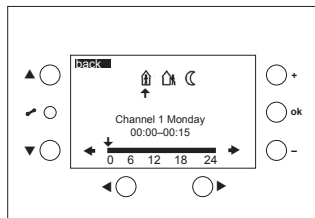
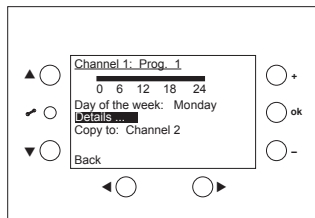
There are 8 channels with weekly programs (minimum switching interval of 15 min.)
(see table on page 26).

- Channel 1 is allocated to the room thermostat (RTR) and has the following operation modes:
Temperature reduction at night, standby and comfort
- For each channel
there is a choice between:
 - no program
 - the set programs (prog. 1-3)
 - a freely programmable program (own program)



- Use ▲ ▼ to select required channel.
- Select program with + or - .
- Confirm with **ok**.

If no program or program 1–3 is selected, a previously selected program is faded out rather than deleted.



Settings– Set switching program

You can now can select different functions:
day of the week, **details ..**, copy to ..

Using the **Details ..** menu, you can see the set programs 1-3 in detail.

The buttons on the VARIA device are given a different function. Example:

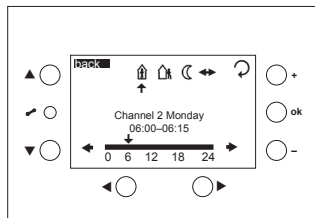
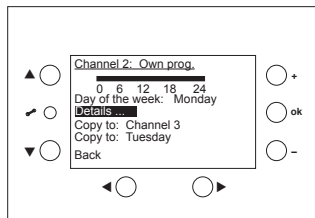
- ▲ End switching program
- ▼ Move left in time bar
- Move right in time bar
- Arrow ↓ in display points to current time in time bar
- + Select operation mode
- Arrow ↑ shows the relevant operation mode

back



0-24 hours





Settings – Set switching program

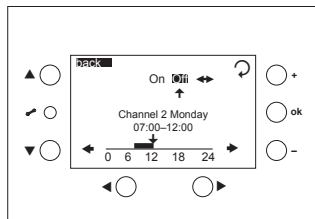
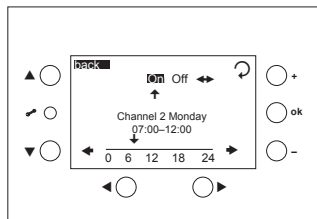
Set own program

The buttons now have a different function (see p. 19).

Details

Using the **Details** .. menu, you can change the operation mode or switching status or time.

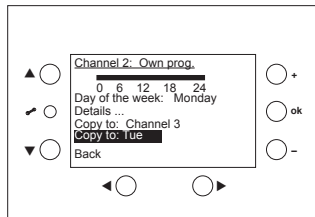
- Use **+** to select operation mode or set the desired time with **–** or **▼**.
- Confirm with **ok**.



Set specific times

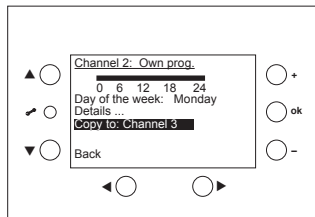
e.g. set time from 7:00–12:00 (ON)

- Using – set the arrow to 7:00.
- Using + **On** select Off.
- Using – set the arrow to 12:00:00.
- Confirm with **ok**.



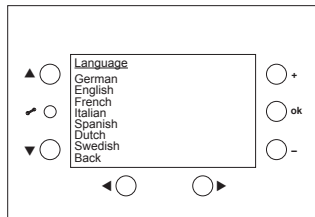
Copy to: Tuesday (example)

- Using buttons ▲ ▼ **Copy to: Tuesday** Tuesday.
- Using + or – set the day of the week.
- Confirm with **ok**.



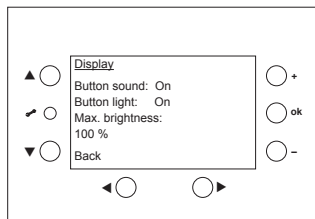
Copy to: Channel 3 (example)

- Using buttons ▲ ▼ **Copy to: Channel 3** channel 3.
- Using + or – set the day of the week.
- Confirm with **ok**.



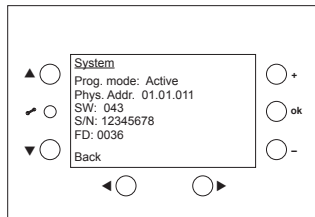
Settings – Set language

- Use ▲ ▼ to select required line.
- Confirm with **ok**.



Settings– Set display

- Use ▲ ▼ to select required line.
- Confirm with **ok**.
- Change value with + or –.
- Confirm with **ok**.



Settings – System

- Use ▲ ▼ to select required line.
- Confirm with **ok**.
- Change value with + or –.
- Confirm with **ok**.

Program mode can be changed with + or –.

Prog. Mode

Phys. add. (physical address)

SW (Software version)

S/N (Serial number)

FD (Finishing date)

Technical data

Mains power supply (optional)

- Nominal voltage: 230 V~, +10 % -10%
- Frequency: 50 Hz
- Power consumption: < 1.5 VA

Bus power supply

- Operating voltage: Bus voltage
- Power consumption: <10 mA
<20 mA (without mains power supply)
- Bus connection: Bus terminal
- Power reserve: 1.5 years
- Permissible ambient temperature: 0 °C ... +45 °C
- Protection class: II in accordance with EN 60669 for designated installation
- Protection rating: IP 20 in accordance with EN 60529

Observe deviating technical data on the rating plate! Technical changes reserved.

The ETS database is available at www.theben.de
Please refer to the KNX Handbook for detailed functional descriptions.

Service address/Hotline

Service address

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