Getting to know the push-button

The push-button plus with room temperature control unit can be used in two different ways: manual or automatic.

- Manual: The push-button plus with room temperature control unit is controlled manually. The push-button plus with room temperature control unit is used to set the desired temperature. The current temperature is displayed on the push-button plus with room temperature control unit.
- Automatic: The push-button plus with room temperature control unit is controlled automatically. The push-button plus with room temperature control unit is used to set the desired temperature. The current temperature is displayed on the push-button plus with room temperature control unit.

For your safety

DANGER

Risk of fatal injury from electrical current. The unit may only be installed and connected by skilled electricians. Observe the regulations valid in the country of use, as well as the valid KNX guidelines.

Getting to know the push-button

The push-button plus with room temperature control unit (referred to below as the push-button plus) gives you four (push-button 2-gang) or eight (push-button 4-gang) operating surfaces. The keys can be set individually to perform various functions. Furthermore a room temperature control unit is integrated, which allows you to control the temperature in various different ways.

Functions of the push-button:

- Switch: toggling, dimming, blind control
- Remote control: controlling the device
- Communication and display functions
- Time control with synchronisation, reading external temperature, fan control

Getting to know the keypad

The push-buttons opposite each other can be configured as either individual push-buttons or a push-button pair. The push-buttons are programmed with various functions depending on the pre-setting.

For 4-gang push-button only: The 4-gang push-button is equipped with an IR receiver, with which you can control the push-button with any IR remote control. Pressing push-buttons 1-8 on the remote control activates the function of the corresponding push-button. Push-buttons 9 and 10 of the remote control have a direct effect on display push-buttons 9 and 10.

Mounting side

In order for the integrated room temperature control unit to work in the best way, you should keep in mind the following when selecting the right installation side:

- Heating/cooling with separated controller outputs
- Heating/cooling with 1 controller output
- Szenenfunktion

Operating the push-button

Set the push-button to programming state

Creating labelled foil strips

You can use the same foil strip templates with any layout program. Specific size specifications for foil strips (in mm):

- Push-button Height Width Thickness
- 2-gang 96 2 23 max. 0.15
- 4-gang Staus LED
- IR receiver

Consult the operating instructions of your printer to find out which type of foil strips you can print.

Note for the electrician

Make sure that you note the settings you have made in the ETS which are important for the use in the configuration table (see “Pre-settings”). The push-button plus with room temperature control unit is parametrised by the electrical installer via the KNX-Tool-Software (ETS).
**Setting the room temperature control unit/display view**

### Standard display

Here you see an example of the standard display:

- **Comfort** operating mode
- Actual temperature
- Heating is active in order to reach the comfort setpoint temperature.
- The time has been synchronized with the time switch (e.g. year, time switch RED/K). Clock symbol flashes. The time has not yet been synchronized.
- Weekend display: 3 = Wednesday

Note that the display of the weekday depends on the pre-settings. The electrician has set a specific weekday to 1. In some countries the first day of the week is not Monday, but Sunday, for example. The other numbers have different meanings accordingly (e.g. 2 = Monday, 3 = Tuesday etc.).

### Setting the setpoint temperature

The electrician has specified three setpoint temperature values for both heating and cooling:

- **for night operation**
- **for standby mode**
- **for comfort mode**

The electrician may have set the pre-settings. The electrician has set , the times at which the operating mode switches (after heating and cooling). The menu command “Set setpoint temperature” or “Set comfort extension” is used to adjust the switching times which have been pre-programmed via the ETS. Switching times which are not defined in the ETS are shown when they are called up in the display with “- - -” and cannot be used using the push-buttons on the display.

### Setting the working day/holiday

You see the setpoint temperature of the current operating mode. You can only change this setpoint temperature. In order to change the setpoint temperature of another operating mode, you first have to switch the operating mode (see “Setting the operating mode”).

The electrician specified within which limits this value can be changed (for example, within a minimum of 16 °C up to a maximum of 28 °C). You cannot set any value below or above these limits. If the electrician made the appropriate setting , the 4-gang push-button emits a warning sound as soon as you attempt to exceed these limit values.

### Setting the background lighting

You then see the setpoint temperature of the current operating mode. You can change this setpoint temperature. In order to change the setpoint temperature of another operating mode, you first have to switch the operating mode (see “Setting the operating mode”).

The electrician specified within which limits this value can be changed (for example, within a minimum of 16 °C up to a maximum of 28 °C). You cannot set any value below or above these limit values. If the electrician made the appropriate setting , the 4-gang push-button emits a warning sound as soon as you attempt to exceed these limit values.

### Setting the display mode

With the display mode, you can select which values you want to see in the display.

- **d 0 = actual temperature (without decimal point)**
- **d 1 = temperature from external temperature sensor**
- **d 2 = setpoint temperature (to 0.5 degree accuracy)**
- **d 3 = date**
- **d 4 = time**
- **d 5 = fan speed**
- **d 6 = date and time in alternation**
- **d 7 = date, time and fan speed in alternation**
- **d 8 = actual and setpoint temperature in alternation**
- **d 9 = actual temperature, fan speed and time in alternation**
- **d 10 = setpoint temperature and time in alternation**
- **d 11 = temperature from external temperature sensor and actual temperature**
- **d 12 = temperature from external temperature sensor, actual temperature and time in alternation**
- **d 13 = actual/setpoint temperature and time in alternation**
- **d 14 = actual/setpoint temperature, fan speed and time in alternation**
- **d 15 = temperature from external temperature sensor, actual temperature, fan speed and time in alternation**

### Setting the internal clock time and switching times

If the time is updated by an external time switch, the updated time is displayed. If you change this time manually, it will be overidden again by the time switch during the next update.

You can only use the control menu to adjust the switching times which have been pre-programmed via the ETS. The switching times which are not defined in the ETS are shown when they are called up in the display with “- - -” and cannot be used using the push-buttons on the display.

### Other display views

- **AFL** Application not loaded or faulty
- **E 2** Overheating: Setpoint temperature > cooling setpoint temperature
- **E 3** ETS application is not compatible
- **E 4** Upper control value range < lower control value range
- **E 5** FRAM error
- **E 6** Error in temperature sensor
- **E 7** STACC error
- **E 8** RAM error
- **E 9** Buffer error

### Menu commands

- **d 3** = date
- **d 4** = time
- **d 5** = fan speed
- **d 6** = date and time in alternation
- **d 7** = date, time and fan speed in alternation
- **d 8** = actual and setpoint temperature in alternation
- **d 9** = actual temperature, fan speed and time in alternation
- **d 10** = setpoint temperature and time in alternation

### Push-button assignment

- **Push-button 1**: 1x 1 s
- **Push-button 2**: 1x 5 s
- **Push-button 3**: 4x 1 s
- **Push-button 4**: 3x 1 s
- **Push-button 5**: 1x 1 s
- **Push-button 6**: 1x 5 s
- **Push-button 7**: 1x 1 s
- **Push-button 8**: 1x 5 s

#### Time control channel 1

- **Switching time**
- **Function**

#### Time control channel 2

- **Switching time**
- **Function**

### Alarm functions

- **Alarm sounds if actual temperature is less than the limit protection: ______ min: _____ max: _____**
- **Alarm sounds if the setpoint adjustment limit is exceeded: ______ min: _____ max: _____**
- **Alarm sound if the setpoint adjustment limit is exceeded:**

#### Other:

- **Alarm sound if the setpoint temperature or operating mode directly switch is pressed:**
- **Alarm sound if the setpoint temperature or operating mode directly switch is pressed:**
- **Alarm sound if the setpoint temperature or operating mode directly switch is pressed:**
- **Alarm sound if the setpoint temperature or operating mode directly switch is pressed:**

### Presets table

- **Push-button**: 1 to 8
- **Function**: _______________________________

### Technical data

- **Power supply**: via KNX
- **Connection**: Bus connecting terminal
- **Display elements**:
  - **Push-button 1**: 1x Display
  - **Push-button 2**: 1x operational LED
  - **Push-button 3**: 8x Status LED
  - **Push-button 4**: Paboo buzz
- **Operating elements**:
  - **Push-button 1**: 3 push-buttons to navigate menu
  - **Push-button 2**: 4 push-buttons
  - **Push-button 3**: 8 push-buttons
  - **Push-button 4**: IR receiver (angle of reception: 60°)
- **Measuring range**: 0 to 40 °C
- **Measuring accuracy**: ± 1 K, depending on installation site: Offset can be configured
- **Controller type**: 2-step
- **Continuous P1 controller**
- **Switching PI controller**
- **Switching PI controller**
- **Switching PI controller**

### Mode selection:

- **Heating mode / None**
- **Heating mode / None**
- **Heating mode / None**

### Direct selection:

- **Heat**
- **Standby**
- **Frost**
- **Heat protection**

**Setpoint adjustment valid until**: Operation mode change / Permanent

**Week starts**

- **Sun/Thu**
- **Fri**

**Direct selection**: Setpoint temperature / Operation mode / None

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**Schneider Electric Industries SAS**

If you have technical questions, please contact the Customer Care Center in your country.

www.schneider-electric.com

This product must be installed, connected and used in compliance with prevailing standards and/or installation regulations. As standards, specifications and designs develop from time to time, always seek for confirmation of the information given in this publication.