

## Touch Sensor 2 plus

**2-key with room temperature controller and LCD**

**5-key with room temperature controller and LCD**

Order no.:

Order no.: 1052 00

Order no.: 1055 00

## 1. System Information

This device is a product of the Instabus EIB system and complies with EIBA directives. Detailed technical knowledge obtained in Instabus EIB training courses is a prerequisite to proper understanding.

The functionality of this device depends on the software.

Detailed information on loadable software and attainable functionality as well as on the software itself may be taken from the manufacturer's product database.

Planning, installation and commissioning of the unit are performed by means of EIBA certified software.



### Safety Instructions

Attention: Electrical equipment must be installed and fitted by qualified electricians only. Non-observance of these warnings may damage the device and cause fire or other hazards.

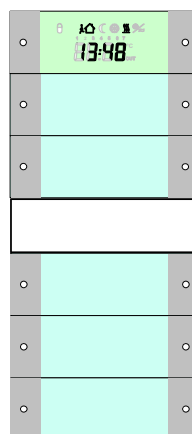
## 2. Function

### Touch sensor function (keys 2-3 or 2-6)

Each key separately programmable: switching • toggling • dimming (double-key operation) • dimming (single-key operation) • blind/shutter control • alarm function • dimming data transmitter • recalling lightscapes • storing lightscapes • status indicator LED • illumination of inscription label • selection of controller operating mode • presence key • locking of individual or of all key functions








### Room temperature controller function (key 1)

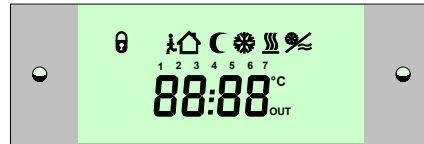
heating/cooling mode • comfort mode • stand-by mode • nighttime mode • frost/heat protection • comfort mode extension • controller/controller actuation lockable • integrated hour display (only with EIB DCF77 clock) • display of actual, reference and outside temperature



### 3. Display window

#### Symbols

-  controller or touch sensor operation locked
-  'comfort' mode
-  'standby' mode
-  'night-time' mode
-  'frost-/heat protection' mode
-  room heating active
-  room cooling active
- °C display window indicates temperature (reference temperature, actual room temperature)
- OUT display of outside temperature
- 1...7 display of weekday Mon - Sun



### 4. Configuration

(to be filled in by the installing electrician)

	Left	Right
Rocker 1:	<i>room temperature controller operation</i>	
Rocker 2:		
Rocker 3:		
Rocker 4:		
Rocker 5:		
Rocker 6:		
Location:		

### 5. Locking of functions

The Touch Sensor 2 plus can be locked completely or partially.  
In locked condition, the Touch Sensor 2 plus displays a 'lock' symbol.

(please note programming here)

	locking of individual keys
	o 2 o 3 o 4 o 5 o 6
	all keys: same response as key _____
	controller
	controller operation

## 6. Room temperature controller

The integrated room temperature controller measures the room temperature and transmits the corresponding commands to the heating and cooling system installed.

The reference temperature and the respective control of the heaters and conditioners depends on the operating mode of the controller.

### 6.1 Modes of operation

#### Comfort mode



.Reference temperature during the presence of persons, e.g. 20°C.

#### Stand-by mode



. Lowering of temperature during a brief absence of persons; on their return, the room temperature can fast be brought back to the reference value of the comfort mode.

#### Night-time operation ('Economy')



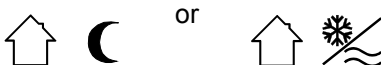
Reference temperature during the night or other prolonged periods when a room is not used so that energy can be saved

#### Frost / heat protection



The frost/heat protection permits energy savings, for instance, when the windows are open. The heating is activated only to such an extent that the heating pipes cannot freeze in (frost protection); installed cooling equipment is operated only to such an extent that the rooms will not be overheated (heat protection, for instance, to prevent health risks for people with circulatory problems)..

#### Comfort mode extension



The comfort mode extension can be activated during the night-time operation or frost/heat protection mode (exception: window open), e.g. by depressing the presence key (if programmed, or by a presence detector, etc.).

The reference temperature of the comfort mode is then activated for a preset time, e.g. 1 hour before the controller goes back to the original mode of operation.

### 6.2 Heating and cooling

Depending on programming the Touch Sensor 2 plus can be operated for:

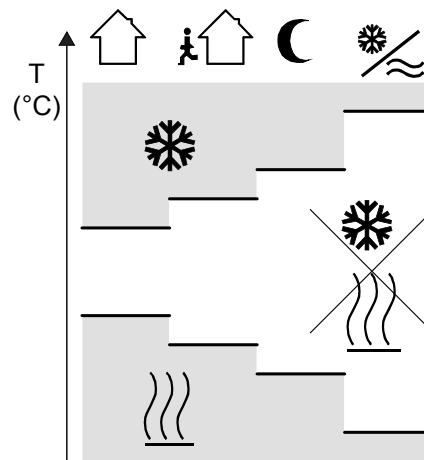
(please note programming here)

heating only (☰)

cooling only (❄)

heating and cooling (☰ und ❄)

The operating modes 'comfort', 'stand-by' and 'night-time' have independent reference values for 'heating' and 'cooling' and display these values (see chapter 6.4, 'Programming menu').



### 6.3 Settings

The room temperature controller is operated with the left and right contacts of the display (rocker 1).

The device is operated by depressing the left ① or right ② side or the middle of the rocker ③.

In the normal mode, the left and right contacts (①, ②) are used to adjust the actual reference temperature.

## 6.4 Programming mode

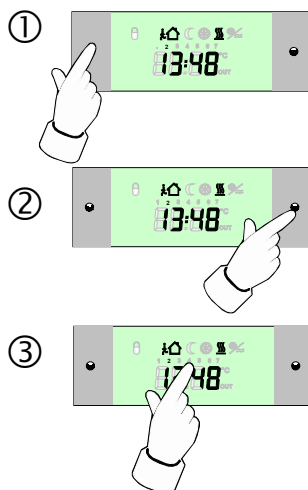
If enabled, a press on the center of the rocker (③) switches over to the main menu of the programming mode after 3 s.

### Main menu

The main menu (= 'level 1') permits the selection of the controller operating mode. During an input, the corresponding symbol flashes; all other symbols and the temperature / clock display are off.

A press on the the left or the right side of the rocker (①, ②) toggles between individual menu items.

A press on the center of the rocker (③) confirms the selection or activates the programming menu ('level 2').

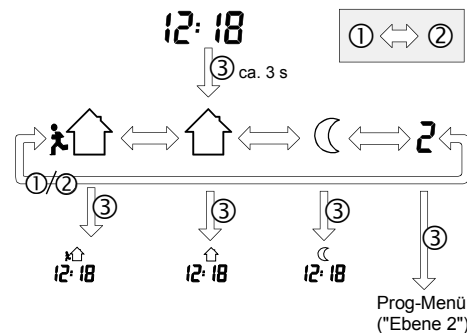


### Programming menu

When number „2“ is displayed in the main menu, another long press on the center of rocker 1 (③) opens the programming menu ('level 2'). In this menu, the reference temperatures for the 'comfort', 'stand-by' and 'night operation' modes can be changed.

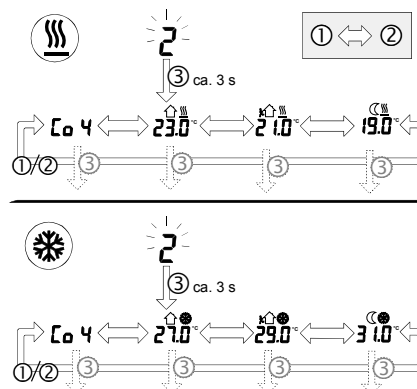
**Important:** Individual or several adjustments may be locked and are then not accessible.

Depending on the program ('heating', 'cooling', 'heating and cooling'), the programming menu shows the corresponding temperature reference values. The reference values are displayed with their respective symbol. The illustration (overleaf) shows the menu steps for 'heating' and 'cooling'. For combined operation ('heating' and 'cooling') the menu sequence is accordingly longer.



A temperature reference value is changed by selecting the corresponding menu step and by a long press on the center of rocker 1 (③) until both LEDs of rocker 2 are flashing. The reference value can now be changed with the left or right side of the rocker (contacts ①, ②). The change of the reference value must be confirmed by a long press on the center of the rocker; the display goes back to the normal mode.

A change of the 'comfort' mode temperature changes the the temperatures of the 'stand-by' and 'night-time' modes as well. In combined operation ('heating' and 'cooling'), a change of the 'comfort heating' temperature equally affects the 'cooling' reference values of the 'comfort' 'stand-by' and 'night-time' modes.



### Contrast setting

Varying lighting conditions may require different contrast settings. The contrast is set in the programming menu (when 'Co x' is displayed) with a long press on the center of rocker 1 (③) until both LEDs of rocker 2 are flashing. The contrast can now be changed with the left and right side of the rocker (contacts ①, ②). The changed setting is stored by a long press on the center of the rocker (③); the display goes back to the normal mode.

**Terminating the programming mode**

The programming mode can be terminated by depressing any other rocker (2 thru 3 or thru 6) or if there is no actuation at all for 2 minutes. Changes not 'confirmed' will not be stored.

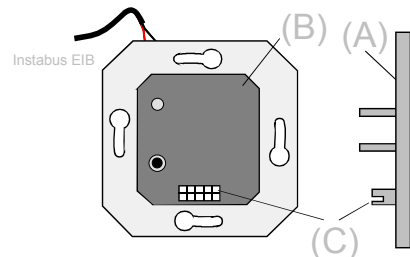
**7. Installation**

**Important:**

The Touch Sensor 2 plus can only be used on an Instabus flush-mounting bus coupler with a round programming button (A) (new generation).

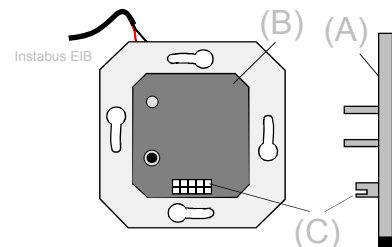
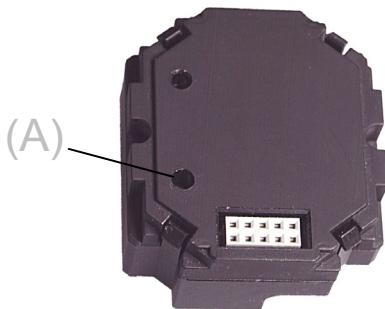
The device cannot be used on older bus couplers and in the Powernet System.


The detailed functions are described in the EIB product documentation of each device.



Anti-theft protection is ensured by screws. See separate instructions on anti-theft protection.

After the installation, the Touch Sensor 2 plus must be adjusted to the control characteristics to ensure correct temperature measurement and control.



 **Safety warnings**

Attention: Electrical equipment must be installed and fitted by qualified electricians only.

**Installation of the 2-key Touch Sensor 2 plus**

After plugging the user module (A) onto a flush-mounting bus coupler (B), the two devices are connected via user interface (C).

**Installation of the 5-key Touch Sensor 2 plus**

The device is installed in one flush-mounting box and on one flush-mounting bus coupler and only in conjunction with the double frame without center strip (order no. 1002..). After plugging the user module (A) onto a flush-mounting bus coupler (B), the two devices are connected via user interface (C).

## 8. Technical characteristics

Supply via flush-mounting bus coupler

Power consumption: 150 mW typically

Connection  
User interface: 2x5 pole plug connector

Ambient temperature: -5°C ... +45°C

Storage / transport  
temperature: -25°C ... +70°C

Type of protection: IP20

Safety class: III

## Acceptance of guarantee

We accept the guarantee in accordance with the corresponding legal provisions.

**Please return the unit postage paid to our central service department giving a brief description of the fault:**

Gira  
Giersiepen GmbH & Co. KG  
**Service Center**  
Dahlienstrasse 12  
D-42477 Radevormwald



The CE sign is a free trade sign addressed exclusively to the authorities and does not include any warranty of any properties.

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