

Installation instruction and user manual

KT-2 Spatial corrector



The manual has to be handed over to the end user after installation.
ID.: 17-16-13-2960-03 | 1.2017

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KRONOTERM

Installation instruction and user manual of the spatial corrector KT-2

Id: 17-16-13-2960-03 | 7.2017

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1 Spatial Corrector KT-2

The spatial corrector KT-2 is user friendly and allows measurements and displays of room temperature, adjustments of desired room temperature, the status of the heat circuit, settings of the circuit, status of alerts, external temperature and clock.

2 Safety alerts



DANGER

Connecting the device to the power source can only be performed by a qualified installer in a **voltage-free** state!



CAUTION

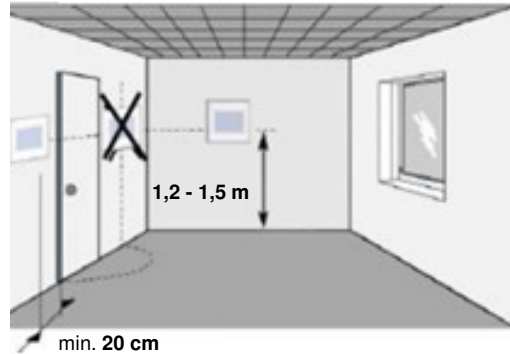
The spatial corrector must be connected properly. An incorrect connection can damage the device. The manufacturer is not responsible for damage caused by incorrect installation and/or improper use.

3 Installation

The Spatial corrector KT-2 must be installed in a room where the temperature is closest to your desired average temperature of other rooms (hallway, living room).

The spatial corrector KT-2 is designed for installation on a flush-mounted electrical socket 3M (GW 24 403 PM).

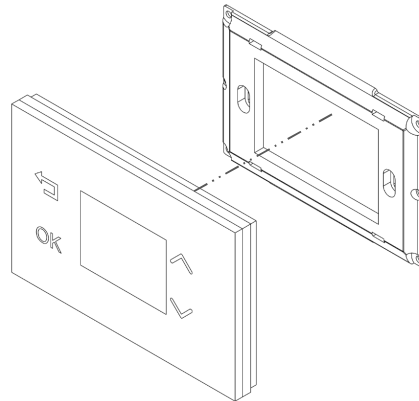
- ▶ The spatial corrector is used for fixed installation in closed and dry rooms.
- ▶ Recommended mounting height is between 1,2 - 1,5 m from the ground.
- ▶ Do not expose the spatial corrector KT-2 to direct sunlight, do not install it in the area of air currents or air heated in any other way (e.g. over electric cookers, refrigerators, etc., or in the area of direct radiation heat of radiators), because the heat affects the control characteristics.
- ▶ Do not install the spatial corrector KT-2 as part of other electrical equipment, e.g. dimmers, a possible heat emission could affect proper operation.



4 Installation

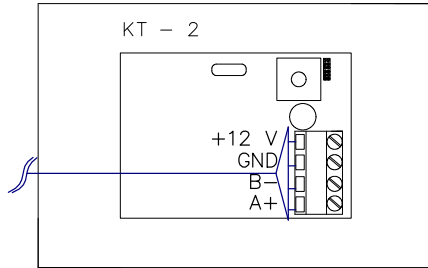
Mount the spatial corrector KT-2 in:

- ▶ A flush-mounted electrical socket 3M, H x W x D 106 x 74 x 48 mm



Connect the spatial corrector KT-2 and the TERMOTRONIC controller with a 4-wire data cable.

5 Connection of Spatial Corrector



- ▶ Connect a routed 4-wire cable to the terminals **A+**, **B-**, **GND** and **+12 V** of the spatial corrector KT-2.



NOTE

Connect the cables you have connected to the spatial corrector KT-2 at terminals **A+**, **B-**, **GND** and **+12V** to the same terminals in the electrical closet controller TERMOTRONICTM.

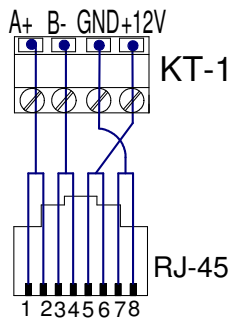
- ▶ In the case of a prefabricated cable, connect 1, 2 to **A+**; 3, 4 to **B-**; 5, 6 to **+12 V** and 7, 8 to the GND connection terminal on the spatial corrector KT-2.



NOTE

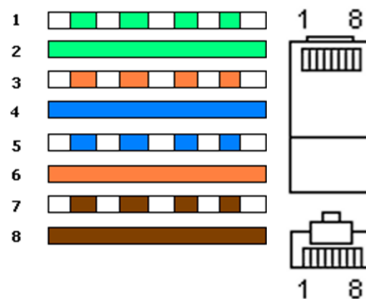
In the case of a direct connection of the spatial corrector KT-2 on the process module(PLC), connect the cables from the spatial corrector KT-2 connected to terminals **A+**, **B-**, **GND** and **+12 V** to the RJ-45 connector. Prepare the RJ-45 connector the same way as the one in the wiring diagram below. Connect it to the connecting terminal TS on the PLC in electric closet controller TERMOTRONIC.

UTP link between RJ-45 connector and KT-2



KT-2	RJ-45
A+	1
	2
B-	3
	4
12 V	5
	6
GND	7
	8

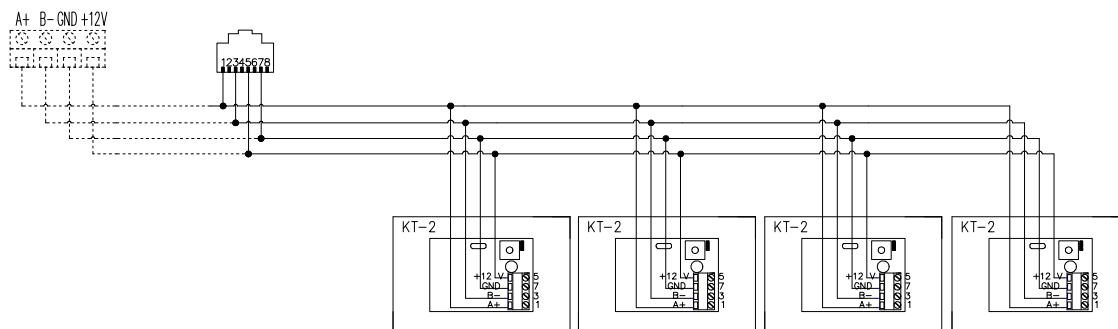
TIA / EIA 568A connection of connector



Cable colors

- 1 green and white
- 2 green
- 3 orange and white
- 4 blue
- 5 blue and white
- 6 orange
- 7 brown white
- 8 brown

5.1 Binding multiple spatial correctors



6 Management of the spatial corrector

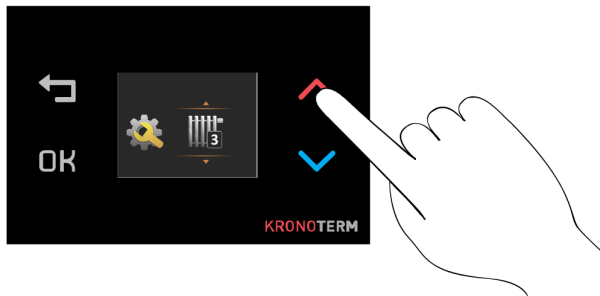
Key	Function keys
	RETURN: Return from the menu and cancel
	MENU: Scroll through menus and confirm
	>>+<< – set the value, move up
	>>=<< – set the value, move down
	LED indicator of set value



7 Initial connection

When connecting the data cable to the control panel for the first time, the regulating circuit setup screen is displayed.




8 SETUP OF CONTROL LOOP



Set the desired heating circuit with the keys  and . Press **OK** to confirm the settings. The control panel confirms valid settings with a multi-tone beep.

9 SYNCHRONISATION

 The device is synchronising, wait a few minutes ...

After a successful synchronisation, the control panel is ready for use (see Qick user guide).



NOTE

Only one spatial corrector can control an individual control loop. Incorrect operation occurs if two spatial correctors are installed on the same control loop.

10 CHANGE OR RESETTING OF CONTROL LOOP

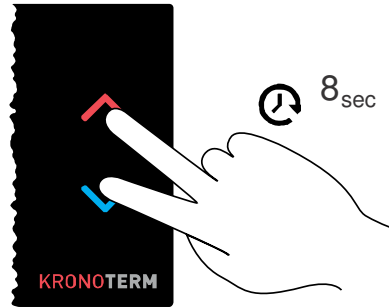




NOTE

The recommended way to disconnect the power supply is by disconnecting the electrical fuse.

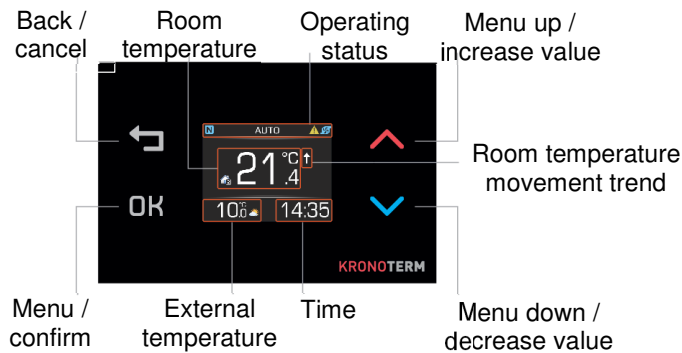
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- ▶ Disconnect the device power supply.
- ▶ Reconnect the device power supply.
- ▶ Accessing the menu **SETUP OF CONTROL LOOP**.



The menu "Setup of control loop" can be accessed only during the first minute of reconnecting the control panel by holding the  and  keys for 8 seconds.

11 MAIN SCREEN

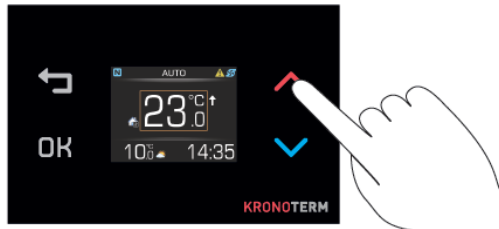





12 OPERATING STATUS




- | | |
|--|--|
| <p>① Operation of control loop.</p> <p>② Fast heating of tap water / Fail-safe anti-freeze mode is active.</p> <p>③ Child safety lock is active.</p> | <p>④ Operational setting for control loop.</p> <p>⑤ Device maintenance of required.</p> <p>⑥ Multiple alarms / errors active.</p> <p>⑦ Circulation pump of the control loop is currently active.</p> |
|--|--|

13 SETTING TARGET ROOM TEMPERATURE



The room temperature currently set is displayed when the  or  arrow is pressed. The temperature is highlighted with an orange border. 

Desired room temperature can be set by pressing the arrow again, the setting is confirmed by pressing the icon, or is automatically confirmed after 8 seconds. 

14 MENU



NOTE

Contents and display of menus depend on model and configuration of device.



Operational setting for control loop.



Fast heating of tap water.



Temperature setting for tap water.



Display brightness
*Brightness is automatically adjusted depending on Surrounding light.



Night mode.



Setting night mode:


The display automatically dims in moderate light.

The display automatically dims in low light.

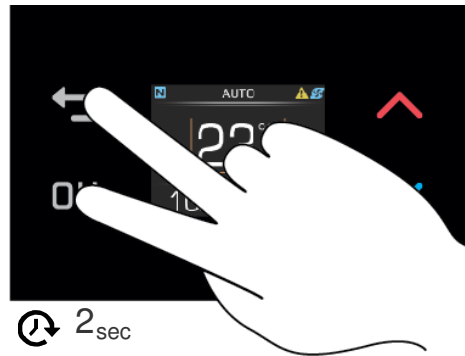
The display automatically dims in darkness.

Disable night mode. The display is always on.

15 CHILD SAFETY LOCK

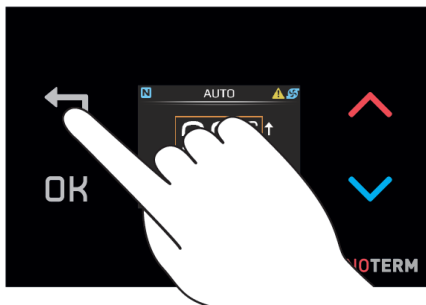
The function is activated by pressing and holding buttons **OK** and **←** simultaneously for 2 seconds. The icon  is displayed in the status bar to indicate an active child safety lock function. Key operation is disabled.

The function is deactivated by pressing and holding buttons **OK** and **↩** or 2 seconds simultaneously. The function icon in status bar disappears and normal button operation is restored.



Child safety lock function prevents unauthorized access to the module. The function can also be used to prevent unwanted button triggering while front panel cleaning.

16 QUICK MENU



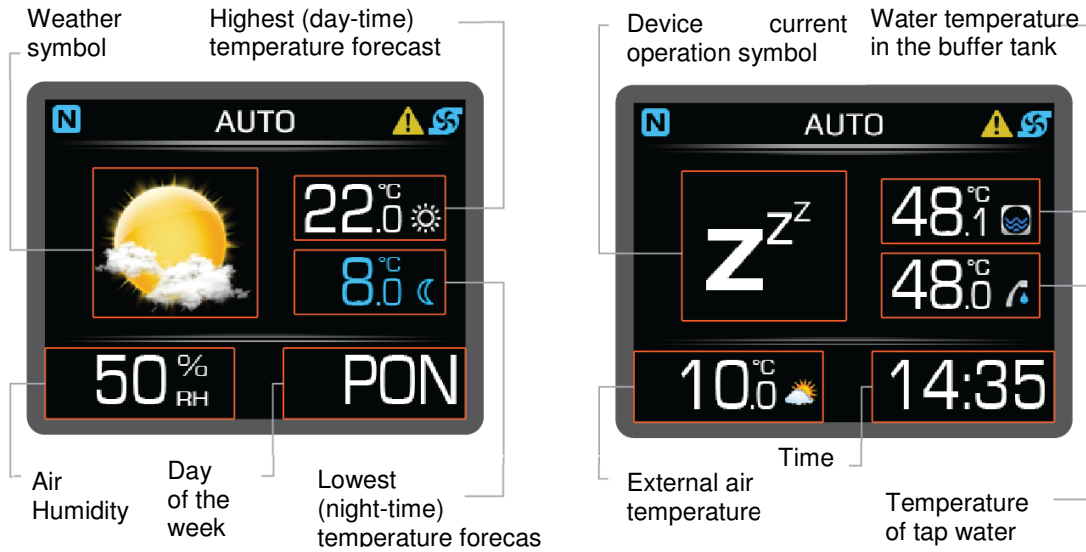
The “Quick menu” can be accessed by pressing the **←** button. By pressing the **←** button, we navigate between System view and Weather forecast menus. Weather can be viewed for the next two days. By pressing the **OK** button, we return to the Main menu.



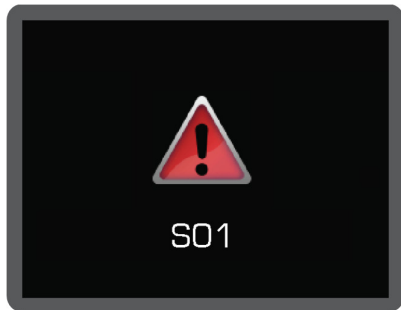
OPOMBA

The Weather is only shown if the device is connected to the Internet and the location of the device is set at the web interface Home Cloud.

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17 SYSTEM ERRORS



S01 – Data connection error between spatial corrector and device. Check if the data cable is correctly connected to the connector on the device. After the cause for the error is resolved, the error is automatically confirmed.

If another error is displayed, please consult our technical assistance.

<http://www.kronoterm.com/servis/>

18 Technical Device Information

- ▶ Dimensions HxWxD: 80x80x8,6 mm
- ▶ The resolution of the temperature sensor 0,1 °C
- ▶ Adjustable range 17 – 27 °C
- ▶ Modbus RS485 connection
- ▶ Max. 4 x KT-2 units can be connected to TT3000

The headquarters of the company and place of production

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