

# **Control***micro*

## User manual

EN

V 1.2.0

Product	Item number
Controlmicro (24 V), Controlmicro (PoE)	PNX13-10001, PNX13-10002







This user manual contains the most important information for operating the Controlmicro in a safe manner. Please study this manual carefully before working with the device. This applies to all persons who come into contact with the device.

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## Warning symbols and signal words used in this manual

 <b>Warning</b>	Obey warning to avoid death or serious injury
 <b>Caution</b>	Obey instructions to avoid personal injury or damage to property
 <b>Note</b>	Instructions and facts to be followed
 <b>Tip</b>	Additional, useful hints

## Important safety instructions, please read before installation!



 <b>Warning</b>
<p><b>The device can carry dangerous voltages if improperly installed!</b></p> <ul style="list-style-type: none"><li>▪ Installation and commissioning may only be carried out by specially trained personnel (qualified electricians).</li></ul>
 <b>Caution</b>
<p><b>Avoid damage to the panel!</b></p> <ul style="list-style-type: none"><li>▪ Only use the panel in perfect condition, as well as in accordance with its intended use, in a way that is safe and aware of the hazards and in compliance with this manual!</li><li>▪ Do not make any changes, attachments or conversions to the device without the manufacturer's permission!</li><li>▪ In particular, have faults that could impair safety immediately eliminated!</li></ul>

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## 1 Target audience

These instructions are intended to explain basic aspects of the installation, commissioning, operation and maintenance of the Controlmicro. Depending on the use phase, this manual is aimed at other target groups:

### Commissioning

- Installation and commissioning may only be carried out by qualified electricians and system integrators. Basic knowledge of electrical and KNX installation is assumed.

### Operation

- The operation of the commissioned panel is explained for unskilled users.

### Repair

- Under no circumstances carry out repairs to the unit yourself! If damage should occur to the device, please contact our technical support immediately, see *9.3 Technical support*.

## 2 Intended use

Depending on the software used, the Controlmicro serves as control unit for the entire KNX installation across rooms. It thus also serves as a status display. The device must be operated within the scope of the technical data and instructions given in this manual. Keep the device away from moisture, dirt and dust to prevent damage to the device.

The following applications belong to the intended use:

- Use as an operating panel (input via touch) for KNX-controlled devices
- Intercom station for compatible door stations
  - A list of all compatible door stations can be found in our FAQ: [www.peaknx.com/FAQ](http://www.peaknx.com/FAQ) under the topic “compatibility”.
- Indoor operation, note the ambient conditions, see *10 Technical data*

The following applications are **not** part of the intended use:

- Operation in systems requiring special monitoring, in safety-relevant areas or in hazardous areas
- Operation under ambient conditions that do not comply with the specifications regarding temperature and air humidity. These include
  - Outdoor operation
  - Operation under direct sunlight
  - Operation in environments with high dust and dirt exposure
  - Operation in environments with high vibration exposure
- Operation in a moving environment (e.g. mobile homes)
- Operation in vessels
- Operation of the device by small children
- Unauthorized repairs or changes to the device

## 3 Product description

The Controlmicro (short: panel) is a high-quality panel computer for wall mounting. It serves as a display and control unit for the KNX controlled components and installations of a building.

### 3.1 Software

The panel can be operated both with the supplied YOUVI software and with other Windows-compatible software.

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**Note:** *PEAKnx provides no service and no warranty for software products from other companies as well as in case of OS driver updates.*

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#### 3.1.1 Operating system

The operating system used is Microsoft Windows 10 IoT Enterprise LTSC. All components required for the unit to function have been pre-installed. To activate functions such as write protection, the preinstalled Tectool can be used. Further instructions can be downloaded from [www.peaknx.com](http://www.peaknx.com) in the download area. Other programs for the visualization of building information and for building control can be installed later.

#### 3.1.2 Operation with the PEAKnx software YOUVI

The YOUVI Basic visualization software included in the scope of delivery is used to control KNX devices such as sockets, switches, lights, dimmers, RGBW lights, heaters, blinds and shutters. Thanks to the IP router included in the software package, the panel can run YOUVI's visualization without an external server or additional bus coupler. Only the connection to the IP network and the KNX bus (via the integrated KNX connection on the panel) is necessary. In addition to visualization and IP router, a bus monitor is also included in the scope of delivery, which can record and filter the KNX traffic.

In addition to the basic functions for controlling KNX devices, YOUVI can be extended via modules for IP camera connection, creation of logics, control via app on the road or voice control.

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**Note:** *For the YOUVI installation, please pay special attention to the YOUVI quick reference guide and the information on KNX project preparation to enable the automatic reading of the project. This quick reference guide is included in the delivery.*

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For more information about YOUVI, see the YOUVI Help which you can access in YOUVI under the “?”-icon. Here, you will also find the current **range of functions** of the software under: *Visualization > Scope of functions*.

#### 3.1.3 Operation with third-party software

The Windows 10 LTSC operating system pre-installed on the panel allows the use of other Windows-based software for e.g. visualizations and door intercoms. Depending on the software

used, the functional scope of the panel can be expanded considerably. A list of compatible software can be found in the FAQs:

[www.peaknx.com/FAQ](http://www.peaknx.com/FAQ), topic “compatibility”.

Further instructions such as for setting up the panel as a door station can be found in the PEAKnx download area: <https://www.peaknx.com/de/downloads>.

## 3.2 Product features

- LED backlit full color TFT display, 1200 x 1920 pixels
- 8 inch touchscreen, projected capacitive (PCAP)
- Integrated speakers and microphone
- Fieldbus connection for KNX
- 100 Mbit-Ethernet connection
- Operating system: Windows 10 IoT Enterprise LTSC
- No fan, thus silent
- Integrated anti-theft protection
- Integrated sensors for CO2 and brightness (adaptive screen brightness)
- Ambient lighting
- Proximity sensor (screen is switched on when approached)
- Ambient temperature 0 to 35 °C
- Installation
  - in landscape format or in portrait format (logo is located at the bottom edge)
  - Suitable switch box for mounting: standard screw spacing 60 mm, depth min. 35 mm
- Protection class IP20

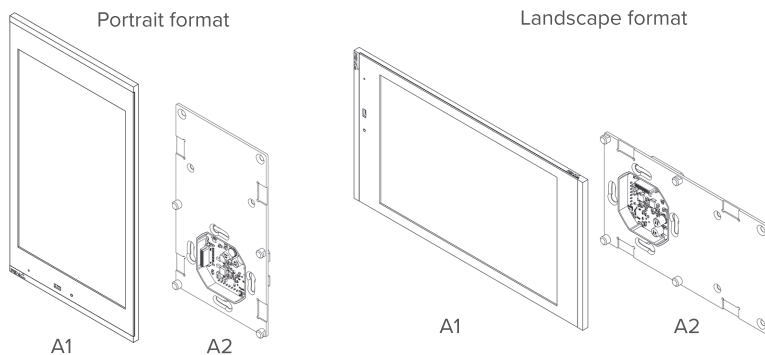
### 3.2.1 24 V variant (PNX13-10001)

- Wi-Fi/Bluetooth: 5 GHz, 2.4 GHz/5.0
- 24 V DC supply; 2.5 A
- Maximum power consumption under full load: 20 W
- Power consumption, idle: 5 W, Server operation without LCD: 3 W

### 3.2.2 PoE variant (PNX13-10002)

- Supply: Power over Ethernet (PoE) at least according to standard 802.3at (PoE+) or 802.3bt (PoE++)
- Maximum power consumption under full load: 22 W
- Power consumption, idle: 6 W, Server operation without LCD: 4 W

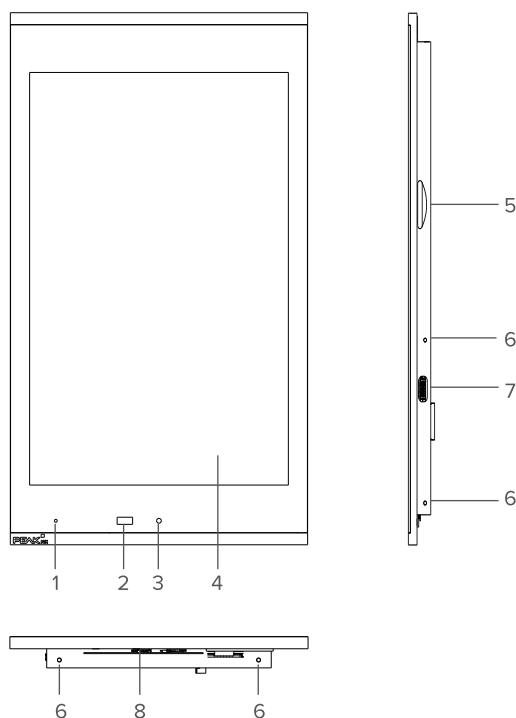
### 3.3 Device components



Position	Description
A1	Panel with touchscreen
A2	Mounting plate; Suitable switch box for mounting: standard screw spacing 60 mm, depth min. 35 mm

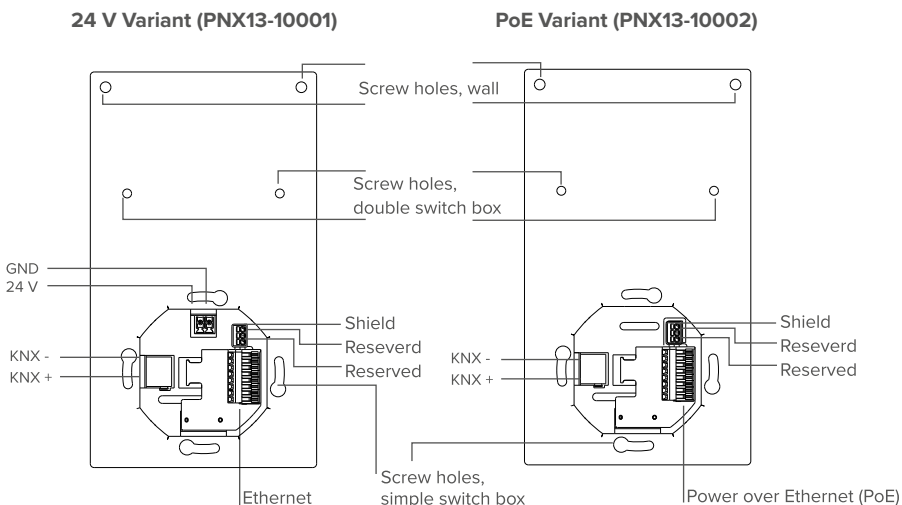


### 3.4 Touch panel elements



Position	Description
1	Microphone
2	Proximity sensor
3	Brightness sensor
4	Touchscreen
5	MicroSD card slot
6	Screw holes for fixing the panel
7	USB 2.0 Type C
8	Status LED: red: panel is shut down, green: panel is switched on

### 3.5 Mounting plate



### 3.6 Notes on the panel's ports

#### 3.6.1 KNX terminals

A terminal of the following specification is used for the KNX connection:  
KNX WAGO 243 211, conductor diameter: 0.6 - 0.8 mm.

**Note:** The KNX fieldbus can only be used with PEAKnx software.

**Note:** The device cannot be used as a line coupler for KNX lines!

#### 3.6.2 Power supply

##### 24 V variant (PNX13-10001)

The plug-in terminal for the voltage supply is designed for a conductor cross-section (rigid) from  $0.14 \text{ mm}^2$  to  $1.5 \text{ mm}^2$ . The conductor cross-section (flexible) with wire end ferrule without plastic sleeve must be in the range of  $0.25 \text{ mm}^2$  to  $1.5 \text{ mm}^2$ .

### PoE variant (PNX13-10002)

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**Note:** The Controlmicro requires at least PoE according to standard 802.3at (PoE+) or 802.3bt (PoE++). Full functionality in normal operation cannot be guaranteed with standard 802.3af.

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### 3.6.3 Ethernet port

#### 24 V variant (PNX13-10001)

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**Note:** A cable of category CAT5e is recommended for using the 100 Mbit LAN connection, cable cross section 0.08 mm<sup>2</sup> to 0.5 mm<sup>2</sup>.

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#### PoE variant (PNX13-10002)

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**Note:** To use the 100 Mbit LAN port and a PoE power supply, a PoE specified cable of category CAT5e or better is recommended, cable cross section 0.08 mm<sup>2</sup> to 0.5 mm<sup>2</sup>.

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### 3.6.4 Connections for external mouse and keyboard

A USB 2.0 port type C is provided on the right side of the panel (portrait mount) to allow data transfer to the panel or to use a keyboard and mouse during setup.

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**Note:** While plugging in the adapter cable, you will notice a small resistance. Once this resistance is overcome you will hear a clicking noise. The cable is then correctly plugged in.

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## 3.7 Controls

### 3.7.1 Graphical user interface

Touch the panel to operate. A brief touch of the panel is interpreted as a mouse click. A right mouse click is obtained by a prolonged touch (approx. 3 seconds).

Text entries can be made using the Windows on-screen keyboard. This can be found in the task bar at the bottom right. If you swipe from the right side of the screen, you can also switch to tablet mode in the menu that appears so that the keyboard appears automatically when you type in a text box.



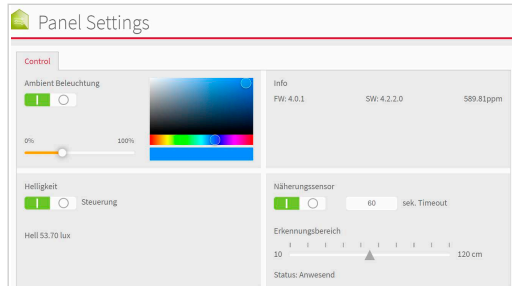
### Caution

#### Avoid damage to front glass and display!

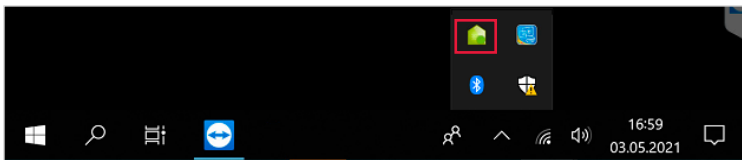
- Do not use the touch screen with sharp or pointed objects.

### 3.7.2 Controlmicro panel settings

This tool gives you access to the CO2 value and to the brightness value, to the ambient light and the proximity sensor.



You open the application by typing <http://localhost:31521/> into the panel's browser or using the icon in the taskbar:



## 4 Delivery

- Controlmicro panel
- USB flash drive: YOUVI Basic software package, Controlmicro user manual
- Brief instructions for commissioning the panel and software
- Connectors for power supply (only 24 V variant; PN13-10001) and KNX
- Network connection board
- Screws to secure the panel against theft, including tools
- Adapter cable from USB type C to USB type A

Optionally included in scope of delivery:

- Controlmicro power supply unit for DIN rail (top hat) (24 V variant; PN13-10001)

## 5 Important safety and handling information



### Warning

The Controlmicro may only be installed and commissioned by qualified electricians!



### Warning

**Observe the national regulations applicable in your country regarding installation, functional testing, repair and maintenance of electrical products!**

- Observe the “Five Safety Rules” (DIN VDE 0105, EN 50110) and apply them correctly:
  - Disconnect mains
  - Prevent reconnection
  - Test for absence of harmful voltages
  - Ground and short circuit
  - Cover or close off nearby live parts
- Before installation, make sure that all connecting cables of the device are undamaged.

## 6 Installation and start-up

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**Note:** We recommend fusing the panel separately.

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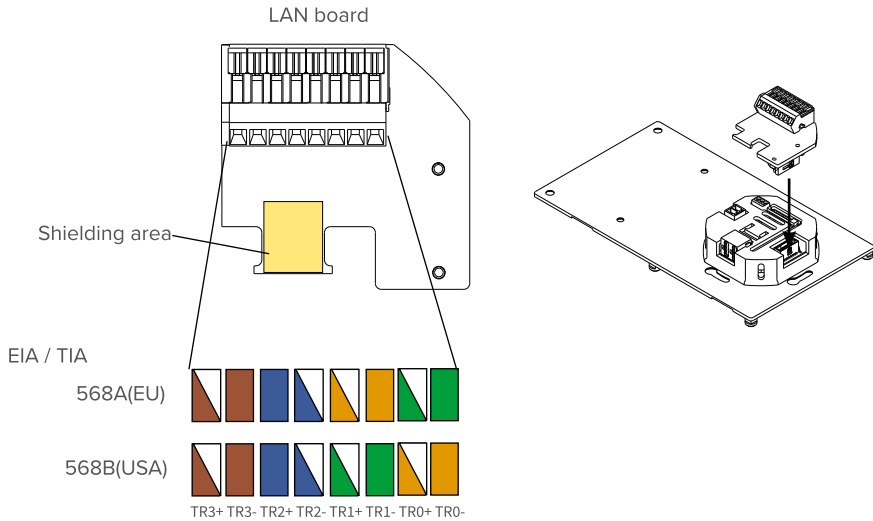
**Tip:** Choose the installation height of the panel according to the height of the primary user so that the top edge of the panel is at his/her eye level. A slightly lower screen prevents fatigue of the arms during operation.

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### Preparation

- Use a power source of the following specification:
  - 24 V variant; PNX13-10001: 24 V DC, 2.5 A for the control cabinet, for example: Item number: PNX12-10010

1. Connect the network cable to the LAN board as shown in the picture on the left.



2. Fasten the network cable to the white housing using a cable tie.
  - While doing this, pinch the shielding between the cable and the designated area on the board.
3. **Only 24 V variant; PNX13-10001:** Connect the cable wires of the power supply unit with the pluggable screw terminal included in the scope of delivery.
4. Plug the KNX cable with the colors red (+) and black (-) into the pluggable KNX-terminal, see *3.5 Mounting plate*.

### Connecting the panel

5. Plug the LAN board onto the connector as shown in the picture on the right.
  - PoE variant, PNX13-10002: If PoE power supply is available, the green LED lights up.
6. Push the prepared plugs for
  - KNX and
  - Power supply (only 24 V variant; PNX13-10001)
 into the appropriate connections of the mounting plate, see *3.5 Mounting plate*.

### Mounting the panel

7. Screw the mounting plate to the switch box (suitable switch box for installation: standard screw spacing 60 mm, depth min. 35 mm)
8. Fasten the plate additionally in the upper two holes with two dowels in the wall. If you use a double switch box, use the center holes of the mounting plate for mounting, see *3.5 Mounting plate*.
9. Insert the panel into the mounting plate.

*The logo should be at the bottom edge (portrait format).*

*The panel is held by magnets on the mounting plate.*

- 10. Optional:** Secure the panel from the side or from below with the 4 grub screws included, see 3.4 *Touch panel elements Pos. 6*. Use the included tool.

## 7 Initial commissioning and operation



### Caution

#### **Avoid damage to the panel due to early commissioning!**

- Note the climatic conditions at the installation site!
- Before switching on the mounted device, the device must have adapted to the climatic conditions at the installation site.
- Temperature and humidity differences can cause damage to the unit.

**Tip:** After commissioning and setting up the panel, we recommend that you create a backup using the optionally available recovery stick from PEAKnx.



### Caution

#### **Avoid damage to the glass cover and display!**

- The touch-sensitive surface can easily be damaged! Use only your fingers or a touchpen to operate the panel. Do not use sharp or pointed objects.

### 7.1 Switching the Controlmicro on and off

**Note:** In the delivery state, the panel automatically logs on with the user name Controlmicro without a password. After the Login, additional users can be added at any time or further settings may be changed in the Windows Settings.

#### **Switching On**

The panel turns itself on after the fuse is turned on.

**Note:** In normal operating conditions it is not necessary to switch off the Controlmicro.

If you need to restart the panel after shutdown, there are 2 ways:

- a)** Switch off the circuit breaker that is associated to the panel.

- This procedure is suitable if the anti-theft screws are inserted.

**b)** Disconnect the panel from the mounting plate so that the power supply is cut off.

- Afterwards, reconnect the panel to the mounting plate or turn the circuit breaker back on.  
*The panel starts.*

### Switching Off

- Tap the Windows logo on the Windows Start screen, select the On/Off icon and select the option “Shut down”.

### Activate keyboard input

To automatically display the keyboard when tapping on a text input field, do the following:

- Swipe into the screen from the right and select “All settings”.
- Select “Devices” > “Typing”.
- Under “Touch keyboard”, check the last item: “Show the touch keyboard when not in tablet mode and there’s no keyboard attached.”

### To display the keyboard icon in the taskbar:

- Right-click on the taskbar and select “Show touch keyboard button”.

## 7.2 Setting up the visualization

After commissioning, set up the visualization as described in the enclosed quick reference guide. It is assumed that all KNX actuators have already been parameterised via the ETS. The corresponding KNX project is then uploaded to *YOUVI Configuration > Projects*. At the end of the process make a backup of your configured visualization.

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**Note:** For *YOUVI* installation, please pay special attention to the *YOUVI* quick reference guide and the information about KNX project preparation to enable the automatic import of the project. The quick reference guide is part of the delivery.

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## 7.3 Control and query of the sensors and the ambient light via http

- Under the address <http://localhost:31521/swagger> you will find all usable http commands for the sensors and the ambient light of the Controlmicro.
- For “localhost” enter the IP address of the Controlmicro, e.g.: <http://10.2.42.60:31521/swagger>, if you access the page from a PC in the network.
- Under the heading “Panel” you will find all http commands for querying and controlling the installed hardware.
- Click on the desired link to open more options.
- Select “Try it out”.
- Test the function by clicking on “Execute”.
- A corresponding “Request URL” link will be created to copy the command.
- At the end of the expanded area it will be shown if the execution was successful: “Success”.



**Example: control the RGB light**

- Click on the third “POST” command under the category “Panel” (/api/v1/panel/led/color Setting led color)
- The link area will expand.
- Click on “Try it out”.
- In the following “Color of led” field, enter the appropriate RGB value for the desired color:

POST /api/v1/panel/led/color Setting led color

Parameters Cancel

No parameters

Request body application/json-patch+json

Color of led

```
{
  "r": 55,
  "g": 59,
  "b": 233
}
```

- Click “Execute” to test the light and generate the appropriate link.
- Under “Request URL” you will find the generated http command.

**8 Maintenance**

By cleaning the touch surface, you prevent fingerprints or dust from impairing the touch function.

**Caution****Avoid damage to the glass cover and display!**

- Do not use harsh detergents, scouring agent, acids or organic solvents. Do not use any sharp objects for cleaning.
- Do not let any moisture get into the unit. Do not spray cleaning agents directly onto the surface of the touchscreen.

**Switching on the cleaning mode**

If you are using the supplied YOUVI visualization, switch on the cleaning mode for cleaning. Therefore, proceed as follows:

- In the YOUVI visualization, switch to the settings.
- Tap on “Activate cleaning mode” in the upper left corner.

Now, active elements are deactivated for 20 seconds to prevent you from accidentally changing device values during cleaning.

### Cleaning the touchscreen

- Clean the touchscreen with glass cleaner or one of the supplied cleaning cloths. More cleaning cloths are available in the PEAKnx Shop.

## 9 Troubleshooting

If you have problems with the Controlmicro, please do not carry out repairs yourself, but contact your distributor. Opening the unit invalidates the warranty.

### 9.1 Touch panel stops responding

If the Controlmicro no longer reacts to input on the touchscreen (which may occur in rare cases following Windows updates), a reboot of the panel usually helps. If the operating system cannot be shut down, the panel must be turned off manually and a reboot must be forced:

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**Note:** *Any data that has not been saved might be lost when forcing a restart.*

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- If inserted, loosen the grub screws of the anti-theft mechanism.
- Pull off the panel so that the power supply is interrupted or turn off the fuse.  
*Then leave the panel off for 10 seconds.*
- Put the panel back into the holder or turn on the fuse.  
*The operating system starts.*
- Fix the grub screws to the housing if required.

If this does not solve the problem, please contact our technical support, see 9.3 *Technical support*.

### 9.2 Windows has unrecoverable problems

If the Windows user interface shows unrecoverable problems, the operating system can be reset to factory settings.

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**Note:** *The restore process may take up to 30 minutes. During this time, the panel cannot be used for building control.*

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Each Controlmicro is provided with an image for restoring the software to the state of delivery. To restore the panel to this state, proceed as follows:

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**Note:** *It is recommended to create a backup of the YOUVI server in YOUVI Configuration > General > General and a backup in the YOUVI Visualization > YOUVI Settings before restoring the factory state. Save the backup to a separate storage medium.*

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- Type “Recovery” in the Windows search box and select the “Recovery Options”.
- Select the button “Restart Now” under “Advanced Startup”.
- You will be redirected to the Advanced Startup menu.
- Select “Troubleshoot”.

- Select “PEAKnx Factory Reset”.
- The factory state will be restored.

### 9.3 Technical support

If you experience problems with your Controlmicro, please contact our PEAKnx Support Team:

- Mail: [support@peaknx.com](mailto:support@peaknx.com)
- Create a Support Ticket: [support.peaknx.com](https://support.peaknx.com)
- Phone: +49-6151-279 1825

## 10 Technical data

Supply	
Power supply specification	<b>24 V variant PNX13-10001:</b> 24 V DC; 2.5 A <b>PoE variant PNX13-10002:</b> at least 802.3at (PoE+) or 802.3bt (PoE++)
Connection terminal, conductor cross section	<b>24 V variant; PNX13-10001:</b> rigid: 0.14 mm <sup>2</sup> - 1.5 mm <sup>2</sup> flexible with wire end ferrule without plastic sleeve: 0.25 mm <sup>2</sup> - 1.5 mm <sup>2</sup>
Power consumption	Ambient lighting: + 5 W Difference between min. and max. screen brightness: 2 W  <b>24 V variant; PNX13-10001:</b> Operation (Idle): 5 W Operation (Full load): 20 W Server operation without LCD: 3 W  PoE variant PNX13-10002: Operation (Idle): 6 W Operation (Full load): 22 W Server operation without LCD: 4 W

Computer system	
Processor	Intel Quad-Core, fanless cooling by convection
Memory (RAM)	4 GB
Hard drive	64 GB eMMC, expandable by microSD
Operating system	Microsoft Windows 10 IoT Enterprise LTSC

Ports	
USB	1 x USB 2.0 Type C
Ethernet	100 Mbit Ethernet port, suitable standard for cabling: CAT5e
Fieldbus	1 x KNX
Supply (only 24 V variant; PNX13-10001)	24 V DC GND

**Display**

Type	LED Backlit full color TFT display
Size (diagonal)	8 inch
Resolution	1200 x 1920 pixels
Touch technology	Projected-capacitive touch (PCAP)

**Periphery**

Speakers	Broadband, stereo
Microphone	Room characteristics
WLAN   Bluetooth (only 24 V variant; PN13-10001)	Wi-Fi 5GHz; 2,4GHz IEEE 802.11 b/g/n/ac   5.0

**Dimensions**

Size of the panel	223 x 125 x 13 mm (without mounting body)
Weight of panel and mounting plate	ca. 600 g

**Environment**

Ambient temperature	0 bis +35 °C
Temperature for storage and transport	-20 bis +60 °C
Protection class (DIN EN 60529)	IP20
Applied standards and directives	

## Environment

24 V variant; PNX13-10001:

EU Directive 2011/65/EU (RoHS II), 2015/863/EU

EMC: EN 55032:2016-02, EN 61000-4-2/3/4/5/6, DIN EN IEC 63044-5-1/2/3,

RED: ETSI EN 300 328 V2.2.2, ETSI EN 301 893, ETSI EN 301 489-1, ETSI EN 303 446-1, ETSI EN 300 440 V2.1.1, ETSI EN 301 893 V2.1.1

PoE variant; PNX13-10002:

EU Directive 2011/65/EU (RoHS II), 2015/863/EU

EMC: EN 55032:2016-02, EN 61000-4-2/3/4/5/6, DIN EN IEC 63044-5-1/2/3,

## Subject to change without notice

Content changes in this documentation, which serve the technical progress, are made without prior notice. This documentation has been prepared with great care and will be revised at regular intervals. Nevertheless, we cannot guarantee complete accuracy. All known errors are eliminated in new editions. For any indication of errors in this documentation, we are always grateful.

## Conformity

Conformity is confirmed by the attached CE label. The considered standards can be found in chapter 10 *Technical data*.

The complete declaration of conformity can be found on the following page.

## Disposal notes

Do not dispose the old device in the household waste!

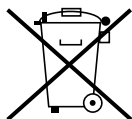
Observe the EU Directive 2012/19/EU on environmentally friendly disposal of used electrical/electronic equipment.

Waste of electrical and electronic equipment can

- contain hazardous substances that are harmful to health and the environment.
- contain valuable substances that are to be reused.

Therefore, do not dispose of with household waste.

Waste of electrical and electronic equipment can be returned to public collection points.



# EU Declaration of Conformity



This declaration applies to the following product:

Product name: **Controlmicro**

Item number(s): **PNX13-10001**

Manufacturer: PEAKnx GmbH

Otto-Roehm-Strasse 69

64293 Darmstadt

Germany

**CE** We declare under our sole responsibility that the mentioned product is in conformity with the following directives and the affiliated harmonized standards:

**EU Directive 2011/65/EU (RoHS 2) + 2015/863/EU (amended list of restricted substances)**

## **Electromagnetic Compatibility**

- EN 55032:2016-02; VDE 0878-32:2016-02
- EN 61000-4-2:2009-12; VDE 0847-4-2:2009-12
- EN 61000-4-3:2011-04; VDE 0847-4-3:2011-04
- EN 61000-4-4:2013-04; VDE 0847-4-4:2013-04
- EN 61000-4-5:2019-04-01
- EN 61000-4-6:2014-08; VDE 0847-4-6:2014-08
- DIN EN IEC 63044-5-1:2020-04; VDE 0849-44-51:2020-04
- DIN EN IEC 63044-5-2:2020-04; VDE 0849-44-52:2020-04
- DIN EN IEC 63044-5-3:2020-04; VDE 0849-44-53:2020-04

## **RED**

- ETSI EN 300 328 V2.2.2
- ETSI EN 301 489-1
- ETSI EN 303 446-1
- ETSI EN 300 440 V2.1.1
- ETSI EN 301 893 V2.1.1

PEAKnx GmbH, Executive Management

A handwritten signature in blue ink, appearing to read "L. Rohrmann".

Lorenz Rohrmann, 2022-03-07



# EU Declaration of Conformity



This declaration applies to the following product:

Product name: **Controlmicro, power supply: PoE**

Item number(s): **PNX13-10002**

Manufacturer: **PEAKnx GmbH**

Otto-Roehm-Strasse 69

64293 Darmstadt

Germany



We declare under our sole responsibility that the mentioned product is in conformity with the following directives and the affiliated harmonized standards:

**EU Directive 2011/65/EU (RoHS 2) + 2015/863/EU (amended list of restricted substances)**

## **Electromagnetic Compatibility**

- EN 55032:2016-02; VDE 0878-32:2016-02
- EN 61000-4-2:2009-12; VDE 0847-4-2:2009-12
- EN 61000-4-3:2011-04; VDE 0847-4-3:2011-04
- EN 61000-4-4:2013-04; VDE 0847-4-4:2013-04
- EN 61000-4-5:2019-04-01
- EN 61000-4-6:2014-08; VDE 0847-4-6:2014-08
- DIN EN IEC 63044-5-1:2020-04; VDE 0849-44-51:2020-04
- DIN EN IEC 63044-5-2:2020-04; VDE 0849-44-52:2020-04
- DIN EN IEC 63044-5-3:2020-04; VDE 0849-44-53:2020-04

PEAKnx GmbH, Executive Management

A handwritten signature in blue ink, appearing to read "L. Rohrmann".

Lorenz Rohrmann, 2022-01-31

## About PEAKnx

As a manufacturer of innovative hardware and software components, PEAKnx develops products for future-proof building automation. For example, individual front-end panels including visualization, which make all information of an intelligent building available at a central point. Great importance is attached to the longevity of the products and the qualitative interaction of design and functionality.

As the newest division of the PEAK group headquartered in Darmstadt, Germany, PEAKnx can draw from more than 25 years of experience in hardware and software development. Through a broad network of certified partners, PEAKnx also offers the associated services – from consulting to the installation and implementation of automation projects. The goal is to make home and building automation comfortable, cost-saving and future-proof through innovative solutions.

[www.peaknx.com](http://www.peaknx.com)