

Desigo™ Control Point

## BACnet/IP Web interface

PXG3.W100-2, PXG3.W200-2



**Interface for web-based, graphical operation of BACnet automation stations using Desigo touch panels and devices with an HTML 5.0 web browser.**

- Simultaneous access by various operator units
- Central administration of graphics and data for other operating views
- Offline engineering with ABT Site
- Upload and download configuration data over the IP interface
- 2-port Ethernet switch for low-cost cabling (10Base-T/100Base-Tx)
- LED indication for Ethernet link and activity
- Operating voltage AC 24 V or DC 24 V
- Plug-in screw terminal block for supply
- Mounting on DIN rail or on the wall

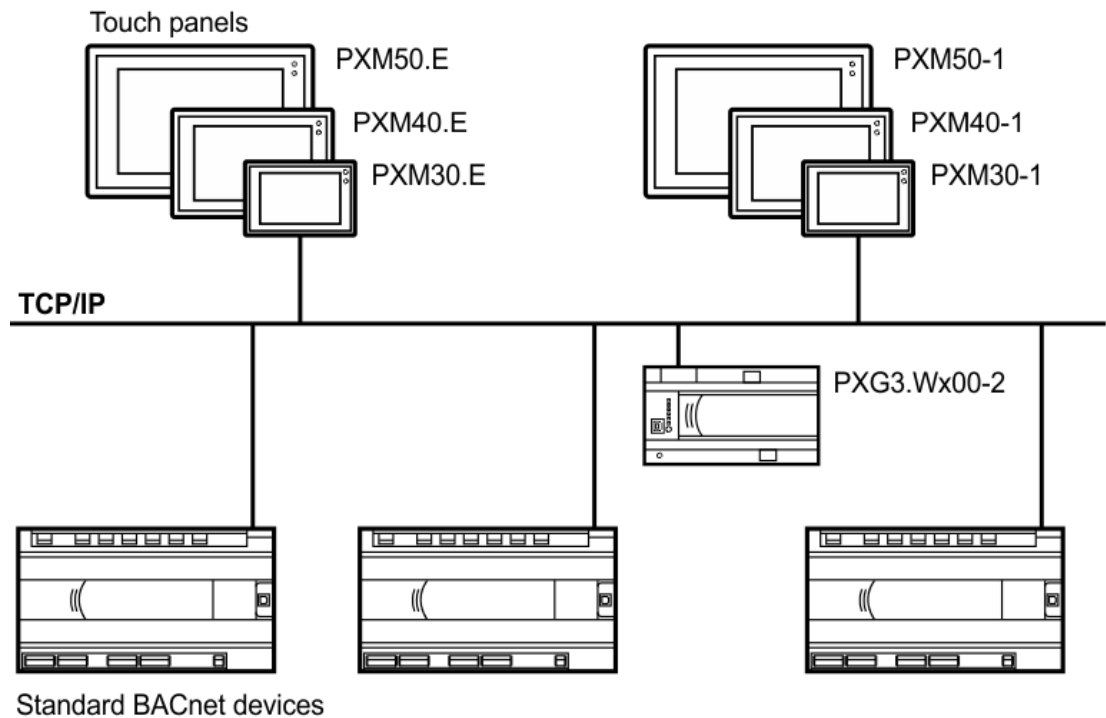
## Functions

The device has a web server that processes data from various Desigo automation stations and other devices based on BACnet IP to HTML5 web pages.

The following functions are available to operate and monitor a plant:

- Log-in and log-out
- User administration
- Customized graphics
- Alarm view to monitor and log alarms
- Alarm forwarding to e-mail recipient
- Graphics-based operation of time schedules
- Graphically displaying trend data
- Generic operation of all objects and properties of assigned devices

## Application



The web interfaces PXG3.W100-2 and PXG3.W200-2 are the central points of access to operate the automation level and room automation. The central point of access permits simultaneous operation on various operator units and supports

- Connection of Desigo touch panels PXM30-1, PXM40-1 und PXM50-1
- Access via devices using a standard web browser with HTML5.

## Type summary

| Type        | Order number | Description   |
|-------------|--------------|---|
| PXG3.W100-2 | S55842-Z140  | BACnet/IP web interface with standard functionality |
| PXG3.W200-2 | S55842-Z141  | BACnet/IP web interface with extended functionality |

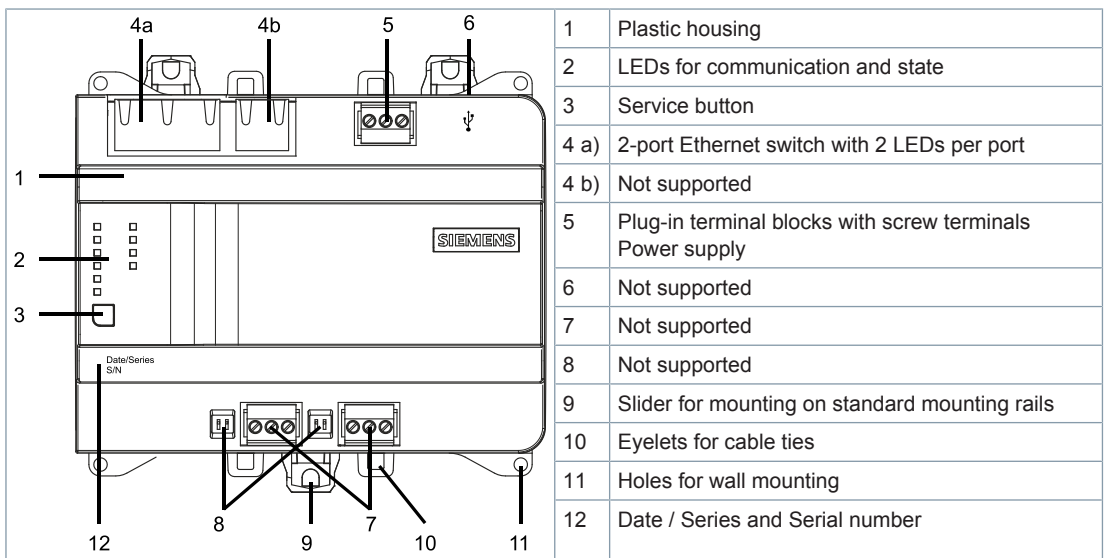
| Type of document  | Document no. |
|---|--------------|
| Data sheet BACnet/IP Touch Panels PXM30.E / PXM40.E / PXM50.E | A6V11664137  |
| Data sheet Touch Panel Clients PXM30-1 / PXM40-1 / PXM50-1    | A6V11664139  |
| Desigo Control Point Basic documentation                      | A6V11666339  |
| Desigo Touch-Panel Clients Commissioning                      | A6V11604303  |
| Desigo Control Point Operating manual                         | A6V11211557  |
| Desigo Control Point Engineering manual                       | A6V11604297  |

Related documents such as environmental declarations, CE declarations, etc., can be downloaded at the following Internet address:

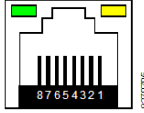
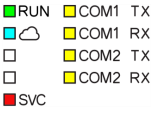
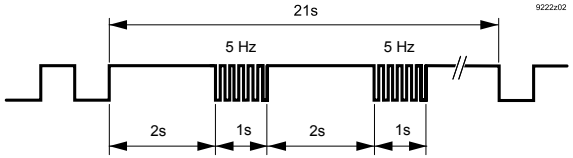

<http://siemens.com/bt/download>

Technical and mechanical design

The device can be mounted on a standard rail or on the wall.



## LED indicators and service pin

| Activity   | LED / Interface | Color  | Activity  | Function   |  |
|--|-----------------|--------|---|--|--|
| <br> | Ethernet 1...2  | Green  | Continuously ON<br>Continuously OFF<br>Flashing       | Link active<br>No connection<br>Network traffic  |  |
|  |                 | Yellow | Continuously ON<br>Continuously OFF                   | Link 100 Mbps<br>Link 10 Mbps  |  |
|  | RUN             | Green  | Continuously ON<br>Continuously OFF<br>Flashing       | Device operational<br>Device not operational<br>Start-up or program halted   |  |
|  |                 |        | Continuously OFF<br>Continuously ON<br>Rapid flashing | OK<br>HW or SW fault - power off and on the device<br>Firmware or application missing/corrupted  |  |
|  |                 | Blue   | Continuously OFF                                      | Function not supported   |  |
|  | SVC             | Red    | Continuously OFF<br>Flashing                          | OK<br>Device is not configured   |  |
|  |                 |        | Flashing per wink command                             | Identification of the device after receipt of wink command   |  |
|  |                 |        |   |    |  |
|  | COM1 / 2 TX     | Yellow | Continuously OFF                                      | Function not supported   |  |
|  | COM1 / 2 RX     | Yellow |   |  |  |
|  SVC  | Service button  |        | Short press   | Identification on the network  |  |
|  |                 |        | As per description:                                   | Do the following to reset the device to factory state: <ol style="list-style-type: none"> <li>1. Power off the device.</li> <li>2. Power on the device.</li> <li>3. Wait until all LEDs light up and turn off again, then press the Service button.</li> <li>4. Keep the Service button pressed until all LEDs light up, then release the button.<br/>All LEDs turn off, the device restarts.</li> <li>5. Wait until the device has fully started up – unconfigured (green RUN LED and red SVC LED are flashing).</li> </ol> |  |

## Safety

**⚠ CAUTION****National safety regulations**

Failure to comply with national safety regulations may result in personal injury and property damage.

- Observe national provisions and comply with the appropriate safety regulations.

**Mounting position and ambient temperature**

The devices can be snapped onto standard rails or screwed onto a flat surface. Plug-in screw terminals connect power and interfaces (except for Ethernet).

| Ambient temperature -5...50 °C (23...122 °F)   | Ambient temperature -5...45 °C (23...113 °F)  |
|--|---|
| <ul style="list-style-type: none"> <li>• Wall, horizontal               <ul style="list-style-type: none"> <li>– From left to right</li> <li>– From right to left</li> </ul> </li> </ul> | <ul style="list-style-type: none"> <li>• Overhead</li> <li>• Wall, vertically               <ul style="list-style-type: none"> <li>– From top to bottom</li> <li>– From bottom to top</li> </ul> </li> <li>• On a horizontal surface</li> </ul> |

**⚠ CAUTION****Risk of overheating for failure to comply with ambient temperature**

Burning and damage to the device

- Ensure sufficient ventilation to comply with the permissible ambient temperature within the panel or installation box. The temperature must be at least 10 K (18° F) lower outside the installation box.

## Installation

**⚠ WARNING****Electric shock**

Incorrect installation of the device may lead to electric shock injuries when touching the device!

- Install the device in a lockable cabinet or use terminal covers.
- Do not install the device in locations where children are likely to be present.
- Conductors with a cross-section of 0.5 mm<sup>2</sup> (AWG24) or greater shall comply with the requirements of IEC 60332-1-2 and IEC 60332-1-3 or IEC TS 60695-11-21.

## Disposal



The device is considered an electronic device for disposal in accordance with the European Guidelines and may not be disposed of as domestic garbage.

- Dispose of the device through channels provided for this purpose.
- Comply with all local and currently applicable laws and regulations.

## Technical data

### Power supply

|  |   |
|--|---|
| Operating voltage 24 V AC (24 V $\approx$ , $\perp$ , $\text{⏚}$ ) | AC 24 V -15 / +20 % (PELV)<br>AC 24 V Class 2 (US)<br>48...63 Hz  |
| Operating voltage 24 V DC  | DC 24 V -15 / +20 % (PELV)<br>DC 24 V Class 2 (US)  |
| Functional ground (US)<br>Functional earth $\text{⏚}$              | The terminal for the functional ground must be connected on the installation side with the building grounding system (PE).  |
| Screw terminals for wire cross sections up to                      | Max. 2.5 mm <sup>2</sup> (14 AWG)   |
| Internal fusing  | 2.5 A irreversible / non-replaceable  |
| External supply line fusing (EU)                                   | Non-renewable fuse max. 10 A slow<br>or<br>circuit breaker max. 13 A<br>Tripping characteristic B, C, D per EN 60898<br>or<br>Power supply with current limitation of max. 10 A |

### Power consumption (for transformer planning)

|                          |       |
|--------------------------|-------|
| Power consumption AC     |       |
| Base load                | 10 VA |
| With USB (not supported) | 16 VA |
| Power consumption DC     |       |
| Base load                | 5 W   |
| With USB (not supported) | 8 W   |

### Function data

| Hardware information |                        |
|----------------------|------------------------|
| Processor            | NXP i.MX8 DualX, 1 GHz |
| Storage              | 2 GB RAM<br>8 GB eMMC  |

| Real-time clock  |  |
|--|--|
| Energy reserve (Supercap) to support real-time clock (7 days). |  |

### Interfaces

| Ethernet interface  |   |
|---------------------|---|
| Plug                | 2 x RJ45, shielded  |
| Interface type      | 10Base-T / 100Base-TX, IEEE 802.3 compatible  |
| Bit rate            | 10/100 Mbps, autosensing  |
| Protocol            | BACnet on UDP/IP and HTTPs on TCP/IP  |
| Cabling, cable type | 10 Mbps: Min. CAT3, shielded cable is recommended<br>100 Mbps: Min. CAT5, shielded cable is recommended |
| Cable length        | Max. 100 m (330 ft)   |

| Screw terminals, plug-in                  |   |
|---|---|
| Cu-wire or Cu-strand with wire end sleeve | 1 x 0.6 mm $\emptyset$ to 2.5 mm <sup>2</sup> (22 to 14 AWG)<br>or 2 x 0.6 mm $\emptyset$ to 1.0 mm <sup>2</sup> (22 to 18 AWG) |
| Cu-strand without wire end sleeve         | 1 x 0.6 mm $\emptyset$ to 2.5 mm <sup>2</sup> (22 to 14 AWG)<br>or 2 x 0.6 mm $\emptyset$ to 1.5 mm <sup>2</sup> (22 to 16 AWG) |
| Stripping length                          | 6...7.5 mm (0.24...0.29 in)   |
| Screwdriver                               | Slot screws, screwdriver size 1 with shaft $\emptyset$ = 3 mm   |
| Max. tightening torque                    | 0.6 Nm (0.44 lb ft)   |

## Conformity

| Ambient conditions and protection classification   |   |
|--|---|
| Classification as per EN 60730   | Type 1  |
| Automatic action   | Class A   |
| Control function   | 2   |
| Degree of pollution  | I   |
| Overvoltage category   | III   |
| Protection against electric shock  | Protection class III  |
| Degree of protection of housing to EN 60529  | IP30  |
| Front parts in DIN cut-out   | IP20  |
| Terminal part  |   |
| Climatic ambient conditions  | <ul style="list-style-type: none"> <li>Class 1K22 / 2K12<br/>Temperature -25...70 °C (-13...158 °F)<br/>Air humidity 5...95 % (non-condensing)</li> <li>Class 3K23<br/>Operation in enclosed dry locations, having no temperature or humidity control<br/>Temperature -5...50 °C (23...122 °F)<br/>(for details see chapter Mounting)<br/>Air humidity 5...95 % (non-condensing)</li> </ul> |
| Mechanical ambient conditions  | <ul style="list-style-type: none"> <li>Class 2M4</li> <li>Class 3M11</li> </ul>   |
| <ul style="list-style-type: none"> <li>Storage / Transport (packaged for transport) as per IEC EN 60721-3-1 / IEC EN 60721-3-2</li> <li>Operation as per IEC/EN 60721-3-3</li> </ul> |   |
| <ul style="list-style-type: none"> <li>Transport per IEC/EN 60721-3-2</li> <li>Operation as per IEC/EN 60721-3-3</li> </ul>  |   |

| Standards, directives and approvals       |  |
|---|--|
| Product standards                         | IEC/EN 60730-1 and IEC/EN 62368-1  |
| Product family standard                   | IEC/EN 63044-x   |
| Electromagnetic compatibility (EMC)       | For residential, commercial, and industrial environments   |
| EU conformity (CE)                        | See CE declaration <sup>1)</sup>   |
| EAC compliance                            | Eurasian compliance  |
| RCM conformity                            | See RCM declaration <sup>1)</sup>  |
| UL/cUL certification (US / Canada)        | UL916; <a href="http://ul.com/database">http://ul.com/database</a>   |
| CSA certification                         | C22.2, <a href="http://csagroup.org/services-industries/product-listing">http://csagroup.org/services-industries/product-listing</a>   |
| FCC                                       | CFR 47 Part 15B  |
| BACnet                                    | B-OD   |
| Environmental compatibility <sup>1)</sup> | The product environmental declaration <sup>1)</sup> contains data on environmentally compatible product design and assessments (RoHS compliance, materials composition, packaging, environmental benefit, disposal). |

<sup>1)</sup> Documents can be downloaded at <http://siemens.com/bt/download>.

### European Union conformity

Contact for regulatory topics: (EU) Siemens AG, Berliner Ring 23, DE-76437 Rastatt

### FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. this device must accept any interference received, including interference that may cause undesired operation

**FCC Caution:** Changes or modifications not expressly approved by Siemens Switzerland Ltd. could void user authority to operate the equipment. United States representative <https://new.siemens.com/us/en/products/buildingtechnologies/home.html>

### Industry Canada statement

This device complies with ISED's license-exempt RSSs. Operation is subject to the following two conditions:

1. This device may not cause interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

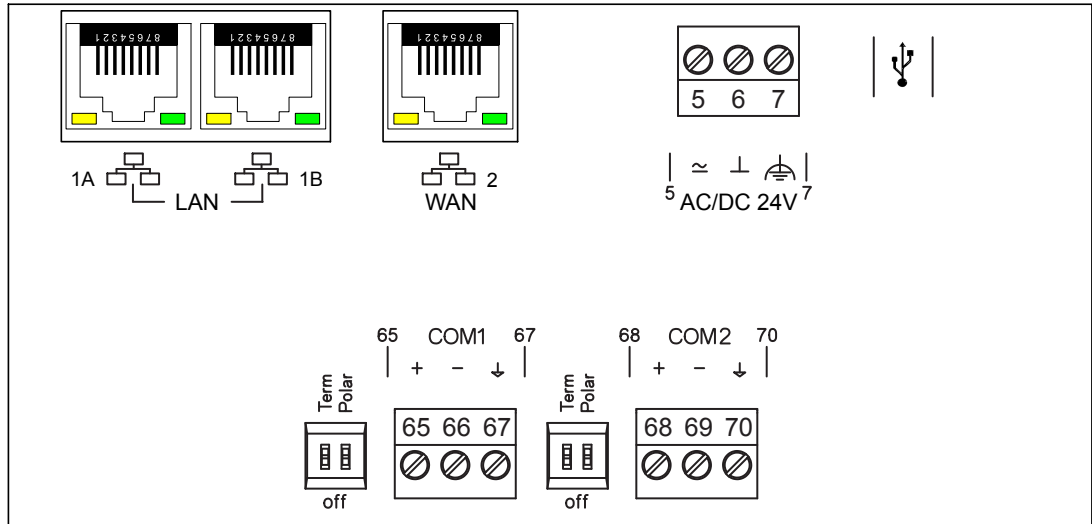
## Housing

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|                               |                                |
|-------------------------------|--------------------------------|
| Color top/bottom              | 2003 Ti-Grey / 804 Black       |
| Dimensions                    | per DIN 43 880, see dimensions |
| Weight with/without packaging | 350 g / 300 g                  |



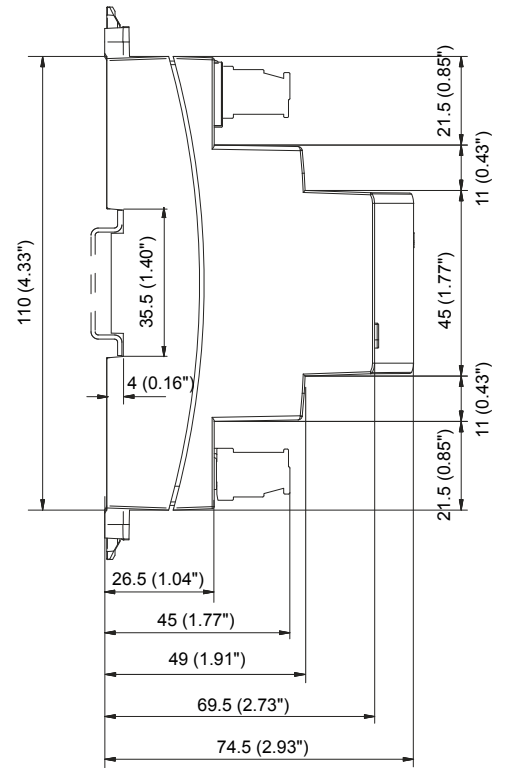
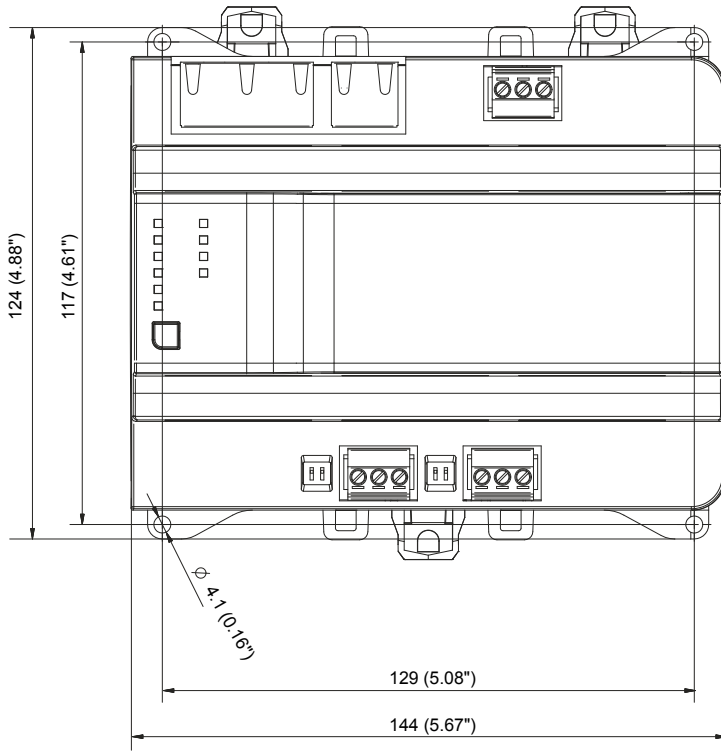
## Connection terminals



| Terminal   | Symbol                | Description   |
|------------|-----------------------|---|
| 1A, 1B     |                       | 2 x RJ45 interface for Ethernet with switch LAN (customer network)                                      |
| 2          |                       | Not supported   |
| 5, 6       | $\approx$ , $\perp$ , | Operating voltage AC 24 V, DC 24 V  |
| 7          |                       | Functional ground (must be connected on the installation side with the building grounding system (PE)). |
| USB        |                       | Not supported   |
| Term       | off                   | Not supported   |
| Polar      | off                   | Not supported   |
| 65, 66, 67 | COM1                  | Not supported   |
| 68, 69, 70 | COM2                  |   |

## Dimensions

All dimensions in mm and inches





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