Desigo™
Desigo Touch and Web
Operating instructions
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# About this document

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<th>Pages</th>
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<tr>
<td>3</td>
<td>2015-01-31</td>
<td>Automatic logout (complemented) Alarm routing; Cyrillic keypads Product security disclaimer</td>
<td>2.6</td>
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## 0.2 Referenced documents

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<tbody>
<tr>
<td>[1]</td>
<td>Desigo Xworks Plus</td>
<td>Online help (chm)</td>
<td>CM111006en</td>
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## 0.3 Before you start

### 0.3.1 Product security disclaimer

Siemens products and solutions provide IT-specific security functions to ensure the secure operation of building comfort, fire safety, security management and physical security systems. The security functions on these products and solutions are important components of a comprehensive security concept.

It is, however, necessary to implement and maintain a comprehensive, state-of-the-art security concept that is customized to individual security needs. Such a security concept may result in additional site-specific preventive action to ensure that the building comfort, fire safety, security management or physical security system for your site are operated in a secure manner. These measures may include, but are not limited to, separating networks, physically protecting system components, user awareness programs, in-depth security, etc.

For additional information on building technology security and our offerings, contact your Siemens sales or project department. We strongly recommend signing up for our security advisories, which provide information on the latest security threats, patches and other mitigation measures.

0.3.2 Trademarks

The table below lists the third-party trademarks used in this document and their legal owners. The use of trademarks is subject to international and domestic provisions of the law.

<table>
<thead>
<tr>
<th>Trademarks</th>
<th>Legal owner</th>
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<tbody>
<tr>
<td>Microsoft …</td>
<td>Microsoft Corporation see <a href="http://www.microsoft.com/trademarks/t-mark/nopermit.htm">http://www.microsoft.com/trademarks/t-mark/nopermit.htm</a></td>
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<td>Google Chrome</td>
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0.3.3 Copyright

This document may be duplicated and distributed only with the express permission of Siemens, and may be passed on only to authorized persons or companies with the required technical knowledge.

0.3.4 Quality assurance

These documents were prepared with great care.
- The contents of all documents are checked at regular intervals.
- All necessary corrections are included in subsequent versions.
- Documents are automatically amended as a consequence of modifications and corrections to the products described.

Please make sure that you are aware of the latest document revision date. If you find any lack of clarity while using this document, or if you have any criticisms or suggestions, please contact your local POC at the nearest branch office. Addresses for Siemens RCs are available at www.siemens.com/sbt.

0.3.5 Document use/ request to the reader

Before using our products, it is important that you read the documents supplied with or ordered at the same time as the products (equipment, applications, tools etc.) carefully and in full.
We assume that persons using our products and documents are authorized and properly trained and have the requisite technical knowledge to use our products as intended.

Continued next page.
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- At your next Siemens branch office www.siemens.com/sbt or at your system suppliers.
- From the support team in the headquarters fieldsupport-zug.ch.sbt@siemens.com if no local POC is available.

Siemens assumes no liability to the extent allowed under the law for any losses resulting from a failure to comply with the aforementioned points or for the improper compliance of the same.

0.3.6 Document validity

This document applies to Desigo systems satisfying the conditions listed in Section 1.1.3. It discusses the following issues in addition to administration:

- Introduction to standard operator units and browser compatibility.
- Overview and explanation of screen and keypad layout.
- Setting options for brightness, language, time format, date format, keypad, auto logout, change location, change network/server settings.
- Messages in case of communication errors, engineering errors, reliability issues.
- Notification: General feedback, notification during touch panel setup.
- Indicators for operating state, alarms, and transitions.

Other documents describe the following:

- Installation and commissioning of a web interface (PXG3.W100) and the Desigo Touch and Web (PXM40, PXM50): CM111029 – Installation and commissioning guide.
- Engineering the web interface (PXG3.W100) and the Desigo Touch and Web (PXM40, PXM50), including download of engineering data: CM111006 – XWP Online help.

0.3.7 Target audience

This document is for people responsible for HVAC and qualified staff as well as service technicians operating Siemens touch panels. The knowledge required to carry out the related operations is prerequisite for users of this manual.

The operating instructions [4] tell you how to work with Siemens touch panels.

**NOTICE** Network technology knowledge and web browser operation is prerequisite.

0.3.8 Structuring

This document contains all practical information up front (first part).
The second part provides useful explanations and some theory on individual functions.

0.3.9  Document conventions

Keys
Keys are used if illustrations need extra explanations.

Illustrations
- Illustrations generally are not titled or subtitled.
- Illustration excerpt are not labeled accordingly.

Wait
"Wait" If an action (e.g. loading a page) takes longer, the animated "Busy Indicator" (waiting symbol) is displayed in the middle of the working pane.

Tap, click
Tapping an element on the touch panel is referred to as "tap". An instruction may read: "Tap "Logout".

Tapping hand
Illustrates tapping a button or function element.

0.3.10  Terminology

Widget
Widget (from Windows and Gadget)
A widget is a graphical window system component. A widget consist of:
- A visible area (pane) receiving mouse and/or keyboard events, and
- An invisible object that stores the status of a component, and is able to change the visible area via specific operations.

Widgets in the Desigo Touch Panel & Web Solution only insert information from associated sources.

Desigo Touch Panel
(Referred to simply as "touch panel" in this document).
- Operator unit with touch screen, available in two versions:
  - PXM40 with 10" screen
  - PXM40 with 15" screen

Web interface
Desigo ≥V4.0 compatible, programmable web interface for use with Desigo Touch and Web or standard clients.
1 Introduction

1.1 Standard operator units and browser compatibility

1.1.1 Introduction

The PXG3.W100 web interface supports local operation via Desigo Touch Panel as well as operation via standard web browser on commercial operator units. Due to the open interface based on standard web technology and dependent on the different use cases, users can clearly benefit from advantages offered by the various operator units.

Desigo Touch Panel are an integral part of the plant, optimized specifically to operate the Desigo building automation and control system:

- No end user access to lower operating system functions.
- Alarms are displayed by an LED on the operator unit even if the screen is inactive.
- Siemens guarantees compatibility and product replacement or system upgrades throughout the entire life cycle.
- Special functions for permanent connection and plant monitoring (7/24 Watchdog).

Standard operator units (tablets, PCs, notebooks, smart phones, etc.) supplement local operation and allow for remote access and operation using personal devices. Standard operator units are designed for temporary plant access and are subject to other innovation and lifecycles.

Desigo Touch and Web

Use cases

<table>
<thead>
<tr>
<th>PXM40/PXM50</th>
<th>Standard Clients</th>
</tr>
</thead>
<tbody>
<tr>
<td>✗</td>
<td>✓ ✓</td>
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<td>✓ ✓</td>
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<tr>
<td>✓ ✓</td>
<td>✗</td>
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</tbody>
</table>
### 1.1.2 Standard client

When using a standard client, the following issues must be dealt with:

**Security-related settings (e.g. allow for cookies).**
Desigo Touch and Web works with cookies. For this reason, the security settings may require adaption on the related client.

### 1.1.3 Browser compatibility

Compatibility issues take a central place due to the large variety of standard web browsers, devices, and versions.

<table>
<thead>
<tr>
<th>Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>The following assessment provides an overview of how standard web browsers are supported.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Grade</th>
<th>Description</th>
</tr>
</thead>
</table>
| **Grade A** | **Firefox ≥4.0, Internet Explorer ≥10.**
Recommended web browser for operation using standard operator units.
- Fully tested and approved browser.
- Supported officially by Siemens BT.
- All functions are available and can be executed as documented. |
| **Grade B** | **Safari–iPad2, Safari–iPad3**
Compatible web browser.
- Fully tested and approved browser.
- Supported officially by Siemens BT.
- All functions are available and can be executed as documented.

Minor deviations in terms of display and operation to recommended browsers are possible (fonts etc.). |
| **Grade C** | **This category includes all HTML 5.0 capable browsers. Examples: Chrome 10.0, Safari 5.**
Partially compatible standard web browsers.
- Minimally tested browsers.
- Not supported by Siemens BT.
- Access to the PXG3.W100 web interface is possible in principle.
- Location binding and user login works. |
1.2 Overview of screen layout

After login, a predefined, customized view opens.

Example for customized view

**Basic elements**

**Status bar**
Siemens log and alarm symbol (if available).

**Application view**
Plant view for main functions, alarms, schedule, favorites, trend, settings, and log-in/logout.

**Navigation bar**
Used to navigator between the various views.

**Working pane**
Contains the various views with the corresponding functionality that can be applied to the plants.

**Properties view**
Helps display parameters for individual objects, i.e. User Designation, Reliability and Operating Hours.

**Page navigation**
Helps scroll multi-page displays.

**Additional functions**
Button(s) for context-based functional extensions to the application.
1.3 Keypad

The keypad is designed for two different language groups:
- Standard (for Latin-based languages and the so-called QWERTY layout), and
- Russian (for Cyrillic-based languages, currently only available in Russian).

Restriction

The following symbols are not supported by the touch panel:
Ð {   }   ©   §   ¢   £   $

Keypad functionality

The interaction with the keypad is roughly the same as commercially available products such as smart phone, tablets, etc.

Keypad type

<table>
<thead>
<tr>
<th>Keypad type</th>
<th>Access via keypad...</th>
<th>...by tapping the...</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lowercase letters</td>
<td>Lowercase diacritics</td>
<td>Step key</td>
</tr>
<tr>
<td>(default)</td>
<td></td>
<td>abc</td>
</tr>
<tr>
<td>Numbers/characters</td>
<td>Lowercase letters</td>
<td>Step key</td>
</tr>
<tr>
<td></td>
<td>Uppercase letters</td>
<td>abc</td>
</tr>
<tr>
<td></td>
<td>Step key</td>
<td>123/+?</td>
</tr>
<tr>
<td>Lowercase diacritics</td>
<td>Numbers/characters</td>
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<tr>
<td></td>
<td>Uppercase letters</td>
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<td></td>
<td>Step key</td>
<td>123/+?</td>
</tr>
<tr>
<td>Uppercase letters</td>
<td>Lowercase diacritics</td>
<td>Toggle key</td>
</tr>
<tr>
<td>Caps lock (see notes)</td>
<td>Lowercase letters</td>
<td>Toggle key</td>
</tr>
</tbody>
</table>

**Notes on Caps lock**

Single tap switches over to uppercase letters for one single letter only and returns to lowercase letters.

Double tap (within 0.3 seconds) switches over permanently to uppercase letters. Tapping again (single tap) switches back uppercase to lowercase letters.
1.4 Navigation

You can freely navigate the touch panel any time. The following overview shows the basic navigation paths.

Note: Operation is described using the example and may vary depending on the project.

1.4.1 Overview

1. Navigation between main functions is carried out in working pane "Application view" using the main function buttons.

2. Navigation between plants and/or main views occurs in the Navigation bar. The current main function remains active during navigation.

3. Navigation between link objects and plants is carried out in the working pane. The current main function remains active during navigation.
1.4.2 Navigation between plants

**Prerequisite**
- The user is logged in and a plant is selected ("Air handling unit 1" in our example).

**Target**
- A plant other than the current one.

**Procedure**
1. Navigation bar > tap button for current plant.
   - Opens a dropdown list box. *All available customized plants are listed. The currently active plant is highlighted in color.*
   - Select the heating plant by tapping the corresponding line.
   - Opens the corresponding plant.
   - The current main function remains active.
   - Continue to wherever you want to navigate as per the above table.

   ![Dropdown list box](image)

   The dropdown list box contains max five (5) entries for reasons of legibility. If more than five entries exist, two navigation objects are displayed at the bottom of the list:

   - The two arrows allow for browsing forward or backward in the list.
   - The following applies:
     - ▼ = Next block of entries
     - ▲ = Previous block of entries.

   ![Dropdown list box](image)

   In the case of no action assigned to an arrow it will remain disabled.

1.4.3 Navigation from plant to main view

**Prerequisite**
- A plant is open ("Air handling unit 1" in our example).

**Target**
- Main view.

**Procedure**
1. Navigation bar > Tap button Main view.
   - The application changes to the main view.
   - The current main function remains active.

2. Continue to wherever you want to navigate as per the above table.
1.4.4 Navigation within main functions

Different objects in the main functions of the customized views may contain navigation functions.

**Read-only objects**

When tapping a Read-only object, the object properties are displayed in the bottom corner of the working pane.

1. Tap the desired object.

   ![Read-only object](image)

   --> The object properties are displayed.

2. Close the properties view: Tap a blank area.

**Commandable objects**

1. Tap the desired object.

   ![Commandable object](image)

   --> The properties that can be changed are grayed.

   --> A widget next to the selected object is opened, and

   --> the object properties are displayed.

2. **Edit the object parameters**.

3. Tap **Apply** to check the changes.

   --> The real object is commanded; the widget is closed, the objects properties are hidden.

**Note**

- **OK** > commands > closes the widget.
- **Cancel** > does not command > closes the widget.
1.4.5  Linked objects

1. Tap the desired object.

--->
Goes to the corresponding plant but keeps the current main function.
2 Operation

2.1 Login

The touch panel displays the main function of the predefined function (Plant view or Favorites) without login. The main view name serves as the title. No application view is displayed.

**Procedure**

1. Tap the screen anywhere [1].
   ---
   Opens the login dialog box.

2. Enter user name and password [2].
3. Tap OK [3].
   --- The touch panel checks the entry. After successful login
   - The main functions and information as per the user rights are displayed,
   - The user name is displayed in the status bar,
   - The main view is displayed based on the selected main functions on screen.

Continued on next page.
**Note:** When tapping "Cancel", the login dialog box is closed without any other function.

**Login error**

Users immediately receive the following feedback for incorrect or improperly entered login information:

In case of login error proceed as follows:

1. Tap **Cancel** to return to the home page.

**Switch user**

Proceed as follows to switch user (e.g. shift work):

1. Tap **Logout**.
   
   ---› This logs out the current user.
2. Log in the new user (as per **Login**, see above).
2.2 Alarms

The main function Alarms shows plants and devices with alarms on the customized pages. Go to the corresponding plant for details and information on acknowledging alarms. Do this:
- Via navigation bar or
- By tapping the corresponding object.

To simplify operation, tap the plant.

Display alarms

The application shows the status “aggregated alarms” on each page as well as the time of the web server. This ensures the highest possible degree of security with regard to alarming.

The symbol is displayed for any alarm from a monitored plant. The symbol is hidden, if there are no alarms (e.g. when all alarms have been acknowledged/reset).

2.2.1 Navigation

The following navigation options are available depending on the setup of the alarm pages (customized).

Alarm overview list

How to go to the alarm overview

1. Tap the Alarms [1] main function button.
2. Tap the Main view* [2] button.
   --- Displays the alarm overview.
* This button may also be named "Overview" or similar.

From here, you can go to another plant with active alarms via a link object [3] (marked by ▶).

NOTICE The alarm overview list does not allow for acknowledgement or reset.
The alarm lists of plants contain all queued alarms of the corresponding plant in the related context. As a result, alarm objects can clearly be identified.

**Alarm list**

**Proceed as follows to go to the alarm list**

1. Tap the Alarms [1] main function button.
2. Tap the dropdown list box (Air Handling Unit 1 [2] in our example).
   --> Displays the alarm list for the selected plant. The example shows a higher [3] and lower object [4] as well as the Acknowledge button.

   You can tap an individual object in the alarm list (not in the alarm overview list though) to get more information on the related alarm.

   When tapping an alarm, the page is rolled to display the tapped object on top. The corresponding alarm widget is displayed at the same time:

   3. Restore the original view by tapping the screen.
     --> The widget is hidden and the alarm list displayed again.

   Acknowledging/resetting always applies to all objects of the currently selected customized view.

**2.2.2 Actions**

The alarm pages (excepting overview pages) always contain a button to either reset or acknowledge the alarm depending on the alarm state. These buttons are displayed only if at least one alarm is available for either reset or acknowledgement.

Depending on the configuration and type of alarm, resetting the alarms is required additionally.

To quit the screen, please tap the button «Alarms» (navigation bar).
2.3 Schedule

2.3.1 Navigation

This overview helps you navigate to any pages in the schedule. Follow the corresponding number to open the desired screen.

1. **Weekly overview**

2. **Day profile**

3. **Exception (calendar)**

4. **Exception (profile)**

5. **Exception (list)**

Schedule navigation is multi-faceted. We differentiate between:
- Page navigation (opening different pages) and
- Tool navigation (opening widgets/functions within a page).

Each main view page contains objects used to navigate to a particular page (and its functions).

The following pages show the navigation objects of a schedule.
Weekly overview

Navigation tools, display

1. Weekday labeling
2. Preview: 24-hour day profile
3. Preview: Exceptions
4. Property view*
5. Rolling objects, page numbers
6. Calendar button

**NOTICE** Please note that in property view the present value is not automatically refreshed upon a scheduler event. A manual refresh is needed.

Day profile

Tools

1. State buttons
2. Time buttons (with time display)
3. Confirm/Cancel buttons
4. Set start time
5. Set end time
6. Copy/Delete buttons
Exceptions (calendar)

### Tools
1. Buttons for previous/next month (with display of current month)
2. Buttons for free dates
3. Buttons for exceptions
4. Button for recurring exceptions (with dot bottom right)
5. Buttons for overlapping exceptions

Exceptions (profile)

### Tools
1. Date (for display)
2. State (display only)
3. Day profile (background)
4. Scheduled exception time span
5. «Recurring» function
6. «Range» function
7. «Copy» function
8. «Delete» button
9. «Calendar» button
2.3.2 Schedule actions (regular)

2.3.2.1 Copy weekday to another weekday

Use this to copy a weekday to one or several weekdays within a week schedule.

1. Open the desired **day profile**.
2. Tap **Copy**.
   
   *Displays the weekly overview as copied; the source day is highlighted.*
3. Select one or multiple **target days**.
   
   To select click the corresponding day(s)—clicking the profile won’t work.

   ![Source day](image)

4. Finish by tapping **OK**.
   
   *Saves the new configuration and returns to the Weekly overview page.*

**Note**

If the action is cancelled:

- No saving takes place.
- The day overview page is displayed.

2.3.2.2 Create/change day profile

1. Tap the start time (crossing of desired state/time) (Stage 3, 0600 hours in our example).

   *Starts all tools and creates a new profile with a three-hour time span.*

2. (Optional) Change the state:

   Use the + buttons to select the desired state.
3. Change the start time as needed (via counter buttons [1]).
5. Set the end time by tapping the end time (Stage 3, 1200 hours for our example).

6. Optional: Change the end time.
7. Tap OK to save (or Cancel).

--->
After tapping OK, the time span is calculated and displayed in a graphic.

The following actions always occur on pages similar to those shown above. For this reason, we will not show any more illustrations.

**Change day profile**

**Extend phase**

1. Select the end time on the selected stage/time span.
   
   --->
   Starts all tools.

2. Change the end time as needed (via counter buttons).
3. Tap OK to save (or Cancel).

   --->
   After tapping OK, the time span is calculated and displayed in a graphic.

**Change day profile**

**Add time span**

--->
Note: A new time span hierarchically overwrites existing entries horizontally (time) and vertically (stage).

1. Select the start time.
2. Optional: Change the start time via the Counter buttons.
3. Tap OK to save.
4. Select the end time.
5. Tap OK to save/finish.

   --->
   The time span is calculated and displayed.

**Change day profile**

**Insert time span**

--->
Inserting a new time span overwrites existing entries horizontally (time) and vertically (stage).

1. Select the desired time span in profile.
2. Select the start time in the desired profile.
3. Select the start time.
4. Tap OK to save.
5. Select the end time.
6. Tap OK to save/finish.

   --->
   The time span is calculated and displayed.

**Change day profile**

**Change time span**

A time span can be changed by changing either start or end time. At the beginning, the existing time span must be activated.

1. Click the desired time span in the corresponding profile.
2. Select a new start time.
3. Change the start time as needed (via counter buttons).
4. Tap **OK** to save/finish.
5. Select a new **end time**.
6. Optional: **Change the end time** via the Counter buttons.
7. Tap **OK** to save/finish.
   ---> *The time span is recalculated and displayed.*

**i** If the changed time span immediately occurs next to another time span at the same stage, the two time spans are interpreted as one time span following confirmation (OK).

---
**Change day profile — Delete time span**

Proceed as follows to delete a time span:
1. Select the **desired time span** in the corresponding profile.
2. Tap **Delete**.
   ---> *Result: After calculation, deletion is saved and the time span hidden.*

### 2.3.3 Schedule actions (exceptions)

#### 2.3.3.1 Functionality

The following functions are available for exceptions:

**Exception (calendar)**

- Display exceptions in the current month.
- Create a new exception for a particular date (week/day).

**Exception (profile)**

- Edit exception profile.
- Copy exception profile to other days.
- Define exception as recurring.
- Create new exception for a date range.

**Exception (list)**

- Display all existing exceptions (max. 48).
- Delete exception.
- Create recurring exception by selecting an existing exception.
2.3.3.2 Navigation

There are different ways to open exception pages. The following applies in general: You can open the exception overview page from anywhere in the touch panel if the current page contains a "Calendar" button.

**NOTICE** Important for all actions on exception pages

Tapping dates in the calendar leads to different results:

Tap …
- Unoccupied dates  ---> Creates new exceptions.
- Existing exceptions  ---> Opens the exceptions.

2.3.3.3 Change existing exceptions

**Display individual exceptions**

1. Tap the desired exception.
   ---> The corresponding profile is displayed.

   **Note:** The day profile of the corresponding week is saved as reference in the exceptions.

**Display overlapping exceptions**

1. Tap the overlapping exception.
   ---> A list of related exceptions is displayed.

   Overlapping exceptions are identified by bold text in the corresponding field (in Calendar View).

2. Tap the line with the desired exception.
   ---> The corresponding profile is displayed.

**Copy exceptions**

"Copy" copies a 24-hour source profile to one or multiple target data.

**NOTICE** Copy is available only for the BACnet data format. A notification is displayed when the max. number of possible exception is exceeded.

1. Navigation: Schedule > Calendar.
2. Tap the desired profile (= source profile).
3. Tap Copy.
   ---> Opens the calendar with highlighted source date.
4. Select one target (or several targets).
5. Tap OK to finish.
   ---> Saves the new exception(s) in the system and displays new entries in the calendar.

**Cancel** reopens the page with the source profile.

Continued next page.
Create exception

1. Navigation: Schedule > Calendar.
2. Tap a date.
   --> Opens a blank exception profile page.

  Note
  - A notification is displayed when the max. number of possible exception is exceeded.
  - This procedure is explained in "Create new day profile". Below is just a brief description.

3. Tap the intersection point of the desired level/time.
   --- Starts all tools and
   --- creates a new exception profile with a three-hour time span.

4. (Optional) Change the state:
   Use the buttons to select the desired state.
5. Change the start time as needed (via counter buttons).
6. Tap OK to save (or Cancel).
7. Set the end time by tapping the intersection point of the desired level/span time and end time.
8. Change the end time as needed (via counter buttons).
9. Tap OK to save (or Cancel).
   --> After tapping OK, the time span is calculated and displayed in a graphic.

2.3.3.4 Create an exception for a date range

You must create an exception for a particular range to enter vacation, weekends, etc.

1. Navigation: Schedule > Calendar.
2. Select the existing date or create a new one (start date, end date).
3. Tap > "End date" in the 24-hour exception profile view.

   --- Switches to the exception calendar.

4. Tap the "End" date (> Start date).
--- Displays the selection via corresponding arrows:

5. Tap OK to finish.
--- Saves the data in the system and
--- returns to the place in the exception calendar where the new exception is displayed.

2.3.4 Recurring exceptions

BACnet "Date"

1. Navigation: Schedule > Calendar.
2. Select an existing date (!) (or create a new data and define as exception).

--- Opens the 24-hour view for the selected date.

3. 24-hour view > tap Recurring.

--- Opens the entry pane for recurring exceptions:
1. Navigation: Schedule > Calendar.

2. Select a new weekday (!) or an existing, recurring date.

3. 24-hour view > tap Recurring.

4. Set the exception as "Recurring" by adding wildcards (*) to one or multiple fields (Day, Month, Year). [4]

5. Tap OK to finish.

---> Saves the data in the system and completes the process.

---> Opens a 24-hour profile for BACnet WeekNDay entry.

---> The selected exception is displayed in the table view.

---> The selected exception is displayed in the table view.

4. Set the exception as "Recurring" by adding wildcards (*) to one or multiple fields (Day, Month, Year). [4]
5. Tap **OK** to finish. [5]  

---> *Saves the data in the system and completes the process.*

### Edit exception date

**NOTICE** This process is not supported directly. We suggest the following as replacement workflow:

1. Copy an existing exception to the new (desired) date or create a new entry.
2. Delete the old (original) exception entry.
3. Both processes are described above.

### Edit 24-hour profile of an exception

Use the procedure for the schedule day profile to change/delete an exception profile.

### Delete exception

1. Navigation: Schedule > Calendar.
2. Select the desired **date**.
3. Select the desired exception from the list view.
4. Tap **Delete**.

---> *Saves the change.*
2.4 Favorites

2.4.1 Navigation

Favorites provide quick access to important data points or details.

The Favorites list is a (customized) list view of key plant data. The order of the objects is defined during engineering. Each object is displayed as list object in minimized form. The object parents are also displayed to clearly identify the related object. The display matches the contents.

- **Commandable object**
- **Read-only object**
- **Linked objects (links to individual plants)**

The response of navigation objects (such as ⬤, ⬤, and △) matches the response described earlier.

The assigned functionality is listed below.
1. Tap a read-only object (the entire row is active).

- The corresponding row is highlighted, and
- The properties view for this object is displayed.

2. Tap anywhere in the working pane to return to the previous view.

Navigation – Commandable object

1. Tap a commandable object (the entire row is active).

- The corresponding row is highlighted, and
- The related widget is displayed, and
- The properties view for this object is displayed.

2. Tap OK or Cancel to return to the previous view.
2.4.2 Edit commandable objects

Below is the workflow for an analog output. The binary, multistate, and counter outputs are handled identically.

1. Navigation > Tap **Favorites**.
   --> Opens the Favorites overview.

2. Continue by tapping a selection, and scroll as needed using the arrow buttons (△, ▽).

3. Change state from automatic to manual > tap **Manual**.
   --> Changes from Automatic to Manual mode.

4. Optional: Use buttons ± (−, + [1]) to set the desired value.

5. Tap **OK** to finish [2].
   --> Saves the value and commands the corresponding device.
2.5  **Trend**

2.5.1  **Navigation**

Trend shows historic data in curves.

---

**Trend page (analog output)**

---

**Trend page (digital or multistate output)**

---

**No Trend function defined**

---

1. Main navigation
2. X- and Y-axis selection
3. Trend data date range (display only)
4. Scroll bar with arrows

---

CM111028en_03

2015-03-31
Select display range

1. **Navigation > Trend.**
   --- Open the Trend display.

2. Tap the arrows (← left or right →) of the overview tool until the desired excerpt is displayed.
   
   **Note:** The position of the slider [R] designates the current position of the display range [D].

   ![Diagram](image)

2.5.3 **Set axes**

**Set X-axis**

The resolution of the X-axis can be set easily. The following intervals are possible:

<table>
<thead>
<tr>
<th>Interval</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1, 6, 12, 24</td>
<td>h Hour(s)</td>
</tr>
<tr>
<td>1</td>
<td>w Week(s)</td>
</tr>
<tr>
<td>1, 3</td>
<td>m Month(s)</td>
</tr>
<tr>
<td>All</td>
<td>– –</td>
</tr>
</tbody>
</table>

1. **Navigation > Tap Trend.**
   --- Open the Trend display.

2. **Tap X-axis.**
   --- Open the X-axis widget.

3. Set the **resolution** using the arrow buttons [1].

   ![Diagram](image)

4. **Tap OK** to finish [2].
Set Y-axis

The Y-axis is set easily similar to the X-axis. The following settings are possible:

<table>
<thead>
<tr>
<th>Operating state</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manual, automatic</td>
<td>Minimum, Maximum</td>
</tr>
</tbody>
</table>

1. **Navigation > Trend.**
   ---> Opens the Trend display.

2. Tap **Y-axis.**
   ---> Opens the Y-axis widget.

3. Use the **State** buttons to select the manual operating state.

4. Use the ± buttons (or direct entry) to set the min./max. value.

5. Tap **OK** to finish.
2.5.4 Exporting Trend data

This export can be carried out only on clients (PC, Smartphones etc.), not on the Touchpanel.

Procedure

1. Trend > click Download Data.

---> The following dialog box opens (see comment below):

2. In the dialog box > select if the file is to be opened or saved the file.
   "When selecting Open with, the dropdown list box allows for selecting an application to open the TrendLogData file."

3. Click OK.

**NOTICE** Comment on the «Open TrendLogData ...» dialog box
The dialog box originates in the Firefox browser. Other browsers may provide entire different windows. The functionality, however, remains the same.
2.6 Settings

The Settings menu allows for a number of customizations for touch panel operators/users. ►

The settings are self-explanatory. We thus do not explain such settings here.

The following opportunities are available after navigation.

![Settings menu screenshot]

About

Information on the touch panel and web server.

![About information screenshot]

Overview page of touch panel and web interface. It contains key device properties on network technology, firmware and hardware versions, designations, etc.

Tap the line containing the desired keyword.

---> *This opens the corresponding page.*
**Brightness**

Sets the screen's relative brightness.

Adjust the screen's brightness via the –/+ buttons.  
---> Exiting saves and applies the changes to brightness.

**Language**

Touch panel operating language.

Select the operating language. Default: English.  
---> Exiting saves and applies the newly selected operating language.

**Time format**

24 or 12-hour (am/pm) display.

Select the desired time format.  
---> Exiting saves and applies the selected time format.

**Date format**

8 variants are available.

Select the desired date format.  
---> Exiting saves and applies the selected date format.

**Keypad**

Keypad layout: Standard QWERTY or Russian.

Select the desired keypad layout.  
---> Exiting saves and applies the selected keypad format.

**Automatic logout**

Automatic logout – Yes or No

---> Select «Disable automatic logout» goes to the actual selection screen:
On this page, select whether to disable automatic logout.

--- For «No» select «Automatic logout». This opens the appropriate page:

Select the interval to automatic logout: 5, 10, 15, 30, 45 or 60 minutes

--- The layout is saved and displayed upon exiting the screen.

**NOTICE**

Automatic logout helps secure the touch panel against unintended manipulations. The touch panel’s logout timeout count begins each time an action is completed. After the timeout defined for the logout interval expires, the touch panel is locked. You must login again to continue working.

**Exception:** The automatic logout can be put to «Disable automatic logout» which results in continuous display, no new log-in is needed unless an interval will be set again. Only available on special customer request, this option must be enabled by Siemens technicians.

**NOTICE** The customer waives any security against unwanted user interventions by selecting the option «Disable automatic logout».

### Change location

Log in to another location, e.g. if a switching room is newly divided or a touch panel is connected to another automation station or another control panel.

1. Enter a different **Location** and the related **password**.
2. Tap **OK**.

--- The touch panel is connected to the new location after tapping OK. You must log in again at the new location (user name/password).

### Device settings (PXM40/PXM50 only)

The page starts three buttons:

- **Deactivate VNC**
  Prevents the VNC server to start on the touch panel and makes it impossible to remote access the touch panel via VNC client.
  This function is only available as long as the user is logged onto the touch panel. The VNC server is automatically ended as soon a user is no longer logged onto the touch panel.
Virtual Network Computing is a standard IT technology that is well documented due to its broad use. Various VNC Clients are available (recommended: TightVNC). Display on the client is currently supported at 8-bit color depth.

Factory setting: Off.

**NOTICE** Activate this function only when needed. The function must be disabled for all other times.

- **SSH (Secure Shell; only PXM40 / PXM50, FW Version ≤ V01.15.30.497)**
  This function is intended only for internal service, and is thus available only to Siemens employees.

  Factory setting: Off

  **NOTICE** Activate this function only when needed. The function must be disabled for all other times.

- **Setup wizard**
  Start the setup wizard that is displayed when commissioning the touch panel.

  You can make the following settings in steps:
  
  Language > IP settings > Server address (PXG3.W100)

  **Alarm routing**
  
  Alarm routing allows system-wide alarm collection and routing to sms and email recipients.

  This page starts the alarm routing setting page.

  ![](image)

  **Alarm routing**

  Set alarm routing to Enable or disable.

  Factory setting: Enable

  **E-Mail server**

<table>
<thead>
<tr>
<th>Setting</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enter</td>
<td>Example, features</td>
</tr>
<tr>
<td>Hostname</td>
<td>smtp.gmail.com</td>
</tr>
<tr>
<td>Connection security server port</td>
<td>none, starttls, ssl/tls</td>
</tr>
<tr>
<td>address sender</td>
<td><a href="mailto:test@example.com">test@example.com</a></td>
</tr>
<tr>
<td>authentication</td>
<td>enable, disable</td>
</tr>
<tr>
<td>user name</td>
<td>administrator</td>
</tr>
<tr>
<td>password</td>
<td>••••••••</td>
</tr>
</tbody>
</table>

  **E-mail recipient**

  - Add necessary e-mail recipients, and/or
  - Delete unnecessary e-mail recipients.
  - This function is limited to four (4) recipients.
• SMS server
  Set
  Gateway
  Protocol
  Password

• SMS recipients
  – Add necessary SMS recipients, and/or
  – Delete unnecessary SMS recipients.
  – This function is limited to sixteen (16) SMS recipients.

  **NOTICE**
  Restrictions apply to the total number of characters allowed for telephone numbers during initial commissioning via PX Web.

See Desigo Touch and Web, Installation and Commissioning Guide, CM111029en_xx

• SMS scheduler
  Allows scheduling SMSs on a weekly base:

  ![SMS scheduler image]

  **NOTICE**
  An alarm can only be sent to a SMS recipient at a time. It is not possible to configure and send SMSs to multiple recipients simultaneously.
3 Good to know

3.1 Messages

Messages are issued in a uniform manner. As a matter of principle, the message is issued "at the point of occurrence". We distinguish between the following:

- Static messages (message without further action required), and
- dynamic messages (messages requiring action [dialog box]).

**Communications problems**

![Communications problems](image)

**#COM** is output if an object:
- is invalid,
- receives no value.

**Engineering error**

![Engineering error](image)

**#ENG** is output if:
- The engineered object designation is invalid, i.e. is non-existent.

**Reliability**

- Reliability informs the user of special conditions applied to an object. It is displayed in the tools pane for a selected object.
3.2 Notifications

General feedback

There are two types of general notifications:
- Modal, i.e. dialog box (e.g. mandatory confirmation).
- Non-modal, i.e. notification only.

Special case: Touch panel setup

When setting up the touch panel, only feedback notifications with mandatory confirmation are output. Example:

Under these special circumstances, the confirmation immediately opens troubleshooting.
3.3 Indicators

Indicators display certain states. Indicators are used for:
- Operating modes
- Alarm states
- Transitions.

### Operating state indicators

- **Normal**
- **Critical protection**
- **Overridden**
- **On/Off delay**
- **Out of service**
- **Manual switch**
- **Danger**

### Alarm indicators

- **Alarm not yet acknowledged.** *Alarm in Offnormal or Fault state.*
- **Fault acknowledged but not cleared.** *The fault must be cleared locally.*
- **Fault cleared but alarm not yet acknowledged.** *Alarm in Normal state.*
- **Fault cleared and acknowledged, but alarm not yet reset.** *(Appears only with Extended alarms.) Reset alarm.*
- **No alarm—no action**

### Transition indicators

- **Normal**
- **Transition (outputs only)**
3.4 Keyboard entry for analog values

Where analog values can be entered, tapping a respective field (in widgets or on linked objects) will display a numerical keypad to easily enter values. The layout is as follows:

- Numerics 0-9
- Decimal point
- Change sign
- Delete from pointer to the left

Example

1. Tap an analog widget or an analog field.

---> Opens the respective dialog box.

2. In dialog box > tap text field.

---> Opens the numeric keypad adjacent to the dialog box.
3. Enter the desired value using the numeric keypad.
   
   ---> *The entered value is displayed in the text field.*

4. Tap OK.
   
   ---> *Closes the dialog box, saves the value and displays the latter in the widget in the value object.*

Entering any **invalid value** will result in a red frame on the text field: