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Document number: UG-SS-SYX XXX
Issue: 25-07-2015 v1.1
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1 Overview

The SYX XXX is a controller that can be used in Simple Boiler House Heating Systems. With its graphic display and single-button operation, the controller is very easy to use and understand.

The device is pre-configured for simple heating systems and has options for typical plant variations.

The device can be connected to networks via its direct Ethernet port and users can integrate the device via the in-built Web server. The integrated Web server means that it can be operated remotely using any standard Web browser such as IE, Firefox, Safari, etc.
1.1 Operating levels

The SYX XXX has different operating levels. These are differentiated in terms of the access rights assigned to them. The higher the operating level, the greater the access rights, i.e. the more parameters that can be viewed and edited. These operating levels are assigned to the individual users **User 0** to **User 2** in the login dialog. User level 3 is not accessible to general users and is for support level engineers only.

**User login**

A maximum of three users can log into the SYX XXX simultaneously. You can log in to the device directly or via a Web browser. The user is automatically logged off after 20 minutes of inactivity.

Pressing the **[Select]** button shows the parameters for User 0 allowing the device to be operated without logging in. In the Web browser, you also have to log in for User 0.

User Level 0 = 0000 (Default Level)
User Level 1 = 1111 (Settings Adjust Level)
User Level 2 = 0112 (Configuration Level)
1.2 Login

If you have performed no operation on the touch panel for a longer period, the welcome screen appears automatically.

Touch any point on the screen.

This opens either the plant overview or, if several SYX XXXs are operated with the touch panel, an overview of the SYX XXXs that can be operated. You must select one SYX XXX from the list of SYX XXXs in order to see its plant overview.

You are automatically logged in as **User 0**.

Touch the [Login] button.

The logon dialog opens.

Here you can log out or you can log in as another user.
NOTE

If the touch panel is being used to operate several SYX XXXs, you can access the overview of the SYX XXX to be operated by pressing the [Logoff] button.

In the Logon dialog, a choice of three user groups is displayed. These groups are differentiated in terms of the access rights assigned to them. The User 0 group has the least access rights. The more access rights assigned to a user, the more parameters the user can view and edit.

► Tap the user for which you have access authorization.

This opens a dialog for entering your password.

► Enter the digits of your password and confirm by pressing [SET].

If the login is correct, the plant overview opens. If it is not correct, you receive an error message and you must login again.
1.3 Plant overview

Following successful login, the plant overview is displayed. This view contains a list of the installed plants, which can be called up by touching them.

Use the [Login] button to switch to the login page, where you can use an additional button to log out and to log in as another user.
1.4 Switching and values

► Select a plant from the plant overview.

The **Switch plant** dialog opens.

Touch the [Values] button to switch to the value list.

Touch the [Times] button to call up the dialog for editing the schedules. If no schedules have been created, this button does not appear.

The list of plants is displayed on the right border; the selected plant is marked. You can select other plants from here.

Parameters that can be changed are marked with the edit icon. Tap this icon to open the editor corresponding to the parameter type, so that you can change the switch/parameter value.

**Changing the switching state**

► Tap the edit icon next to the switching state to be changed.

This opens the editor corresponding to the parameter type, so that you can edit the switching state. This contains a list of possible switching states. The current switching state is marked.

For simple on and off switches it appears as follows:

The following editor appears for multistate parameters:
If a multistate parameter has more than five states, use the up/down arrows to go to the other states.

► Tap an alternative value.

The new value is applied and the display reverts back to the **Switch** dialog.

Making a change to an Auto condition will make the Hand indication LED illuminate on the controller facia. All items must be in Auto for the LED to be off.

If the LED is On and plant operation is not as expected please return all items to Auto before requesting any technical assistance.
1.5 Editing set points

► Open the values page.

![Values page](image)

► Tap the edit icon next to the switching state to be changed.

This opens the editor for editing the set points.

![Editor](image)

The [+/-] buttons below the text box change the value in the corresponding direction. [+/ -] changes the sign and [.] is a decimal point.
If not all buttons are required for a dialog, the labeling is hidden and the button is inactive.

► Change the set point and confirm by pressing [SET].
The new value is applied and the display reverts back to the Values dialog.

1.6 Querying messages

In all dialogs, incoming messages are shown by the message icon at bottom right in the footer line.

You can view queued messages by touching the message icon.

Either the newest message or the message with the highest priority will be displayed.

If several messages are queued, up/down arrows appear at the bottom, with which you can scroll through the messages. In addition, the index of current messages and the maximum number of available messages is shown in the lower area.

You can confirm and delete messages, provided you have the necessary access rights.
1.7 Times

If schedules are configured for a selected plant, you can display and edit these schedules, switch times and switching states.

Weekly overview

► Select the plant either in the plant overview or using the numbered buttons on the right border of any dialog.

The Switch plant dialog opens.

If schedules are configured for the selected plant, the [Times] button is available.

► Touch the [Times] button.

This opens an overview of all the weekly programs of the selected plant.

► Select the weekly program.

The overview for the current week is displayed.

You can switch to a week later or earlier using the arrows at the top.

If special times are in effect for a day, the buttons for this day (left edge) are shaded yellow.
Open the dialogs for managing the weekly program using the [Week program] button (See chapter 4.6.1 “Weekly program”, page 74.). Open the dialogs for managing all special times with the [Special times] button (See chapter 4.6.2 “Special times”, page 77.).

**Daily overview**

► Select a day from the weekly overview.

The daily overview opens.

All switch times from the weekly program that are applicable on this day and the special times are displayed.

Using the arrows at the top, you can switch to a day earlier or later.

The displayed switch times are also buttons. If you touch a switch time from the weekly program, the weekly program opens.

If you touch a switch time from a special time, a list opens with all the special times for this day. If there are several special time entries, the list is sorted according to effective priority. The list begins with the highest priority. Existing special times can be edited, added (See chapter 4.6.3 “Editing or creating new special times”, page 80.) and switch times of a special time (See chapter 4.6.4 “Editing or creating new switch times of a special time”, page 82.) can be edited.
1.7.1 Weekly program

► Call up the weekly program as follows:
► Tap the **[Week program]** button in the weekly overview or on a switch time from the weekly program in the daily overview (See chapter 4.6 “Times”, page 72.).

This opens the dialog for editing the weekly program.

![Weekly Program Example](image)

The first day or the day selected in the daily overview is marked in this view, while the weekly switching times for this day are shown in a list.

Here you can also switch to a different day of this week.

Use the up/down arrows to move through the list of weekly switching times.

You can now edit the weekly program.

► Tap the edit icon next to a weekly switching time to change the switch time or switching state.
► Touch **[New]** to create a new switch time.
► You can use **[Copy]** to copy all switch times for a day to another day (See section "Copying weekly switch times", page 76.).

**Editing switch time and switching state**

► Call up the weekly program, as described under chapter 4.6.1 “Weekly program”, page 74..
► In the weekly program, select a switch time for editing, by tapping on the edit icon.

This opens the editor for editing the switch time and switching state.
Enter the time by tapping the numbers.

Tap the edit icon next to a switching state to edit the switching state. This opens the selection dialog with the switching states that are available for the selected switching time.

NOTE
The switching state “End” results in a switch-back to the standard switching state of the weekly program. For example, with the entry “00:00”, you can recognize this by the marking Standard. The standard switching times cannot be deleted. The standard switching time is overwritten by creating a new switching time with a switch time of 00:00 and the desired plant switching state.

Tap on the desired switching state. The new switching state is applied and the display reverts back to the editor for editing the switch times.
Confirm your entries with [SET]. This returns you to the dialog from which you called up the editor for editing the switch time and switching state.

**NOTE**

If project planning has been carried out for the building automation system accordingly, the seconds may be displayed under the time. Project planning by Kieback&Peter usually does not include seconds. This means that they cannot be edited.

**Copying weekly switch times**

It is possible to copy the weekly switch times from one day to another. For this purpose, there is a [Copy] button in the dialog for editing the weekly program. The button is only visible if the logged-in user has the required access rights. Call up the weekly program, as described under chapter 4.6.1 “Weekly program”, page 74.

Tap the [Copy] button.
Tap on the day to which you want to copy the switch times. Here you can also select more than one day.

Tap [Continue] to copy the switch times and return to the previous dialog.

1.7.2 Special times

If you want to edit only special times, a special dialog is available for managing all special times of a selected plant.

NOTE

A special time entry is effective only from the first entered switching time. Prior to that, either the weekly program or other special times defined for the day in question are effective.

Select the weekly overview, and tap the [Special times] button. See chapter 4.6.1 “Weekly program”, page 74.

This opens a dialog for managing all the special times of the selected plant.

In the dialog for managing all special times, three selection options are available.

- Calendar view
- Create new special time
- List of all special times
Calendar view

The calendar view shows an overview of the days of the month containing the week that has been set in the weekly overview.

Days for which special times have been defined are marked with a yellow background.

Using the arrows at bottom left, you can move back or forward by a month. Use the up/down arrows at bottom right to switch between each half of a month.

If a day is selected, the dialog opens with a list of all special times relating to that day.

Existing special times can be edited and added again. The date of the selected day is applied.

**NOTE**

If there are several special time entries, the list is sorted according to effective priority. The list begins with the highest priority.

If you want to edit a special time, tap on the edit icon and proceed as described in chapter 4.6.3 “Editing or creating new special times”, page 80..

If you want to edit the switch time of a special time, tap on the clock icon and proceed as described in chapter 4.6.4 “Editing or creating new switch times of a special time”, page 82..

Using the [New] button, you can add a new special time for the selected day. To do this, proceed as described in chapter 4.6.3 “Editing or creating new special times”, page 80..
Creating a new special time

You can create a new special time immediately by touching this button. To do this, proceed as described in chapter 4.6.3 “Editing or creating new special times”, page 80.

List of all special times

All special times that have been configured for the selected plant are displayed as a list.

![Image of list of all special times]

The icons beside the special times indicate which editing options are available.

If you want to edit a special time, tap on the edit icon and proceed as described in chapter 4.6.3 “Editing or creating new special times”, page 80.

If you want to edit the switch time of a special time, tap on the clock icon and proceed as described in chapter 4.6.4 “Editing or creating new switch times of a special time”, page 82.

Using the [New] button, you can add a new special time. To do this, proceed as described in chapter 4.6.4 “Editing or creating new switch times of a special time”, page 82.
1.7.3 Editing or creating new special times

If you have selected a special time for editing or have opted to create a new special time, the overview for editing a special time opens.

The settings for Start, End and Repeat that were valid until now are displayed.
If you want to create a new special time, either no entries appear or, if you had already selected a day, the date of the selected day appears for Start and End.
► Tap the edit icon for the start time or end time.
This opens the editor for editing the date.

You can set another month using the arrows beside the monthly display.
Use the up/down arrows to switch between each half of a month.
► Tap on the desired day.
The date is applied and the previous dialog appears.
► In the overview for editing the special time, tap the edit icon next to Repeat.
This opens the repeat dialog, which presents the possible options for repeating the special time. The options depend on the entries under Start and End of the special time.
If the start date is the same as the end date, you can select from the following options:
If you have entered a date range under Start and End, you can select from the following options:

- Select one of the options by tapping it.

The selection is applied and the previous dialog appears.

**NOTE**

The number of special times is limited to 30 special times per time program. If this number has been reached, no new special times can be created.

After editing the settings for the special time, you can edit the switch times and switching states of this special time. To do this, tap on the [Continue] button and proceed as described in the following section.
1.7.4 Editing or creating new switch times of a special time

If you have created a new special time and tapped the [Continue] button, as described in the previous section, you can enter the first switch time for this special time. After the first entry of a switch time, an overview opens with all the switch times of this special time. You can also call up this overview by tapping on the clock icon of a special time in the list of special times for the selected plant.

► Tap the edit icon of a switch time that you want to edit or tap [New] if you want to create a new switch time.

This opens the editor for the switch time and switching state.

► Enter the time by tapping the numbers.

**NOTE**

A special time entry is effective only from the first entered switching time. Prior to that, either the weekly program or other special times that apply to the day in question are effective. A maximum of eight switch times can be created for a special time. If this number has been reached, the [New] button is hidden.

► Tap the edit icon next to a switching state to edit the switching state.

This opens the selection dialog with the switching states that are available for the selected switching time.
NOTE

The switching state “End” results in a switch-back to the weekly program or to a special time of a lower priority, if more than one special time applies on this day. The switching states of the weekly program or of lower priority special time present at the switching time are then effective.

► Tap on the desired switching state.

The new switching state is applied and the display reverts back to the editor for editing the switch times.

► Confirm your entries by tapping [SET].

The overview with all switch times of this special time opens again.
Operation Using a User Touch Screen

► Tap [Continue] to finish editing.
1.8 Trend display

If a trend has been recorded for a parameter, you can display the trend curve on the touch panel.

Controls in the trend curve dialog

Various buttons are displayed on the right and bottom borders of the trend curve dialog. You can use these to customize the trend curve display to your needs.

It features the same functions and icons as those on the Web interface. For a description, see chapter 3.12 “Trend display”, page 59.

4-1: Controls on the trend curve display

[1] Alternates between line display and step display.
[2] Double arrow – moves the view by the fully displayed width.
[4] Zoom – Stretches or compresses the time axis.
[5] Displays the current trend values. Time and value axes are scaled if required.

If a zoom icon is deactivated, no further zooming in that direction is possible.

On a touch panel, information on any trend value can be accessed as a popup. If you have zoomed far enough so that the small frame for the popup appears, tap this frame once. Popup information about the relevant trend value appears for a limited time.
1.8.1 Opening the trend curve dialog

► Select the plant in the plant overview or using the plant buttons on the right border of any dialog.

The trend icon indicates that a trend has been recorded for this parameter.

► Tap the trend icon.

► Tap [Values].

The Change values dialog opens.
The trend curve dialog opens.
1.8.2 Displaying the trend curve

The trend curve is displayed almost exactly as it is in the Web browser. For a description, see chapter 3.12.2 “Displaying the trend curve”, page 62.

Again, the trend curve can be shown as either a line display or a step display. However, for the touch panel, the step display is the default setting.

It features the same functions and icons as those on the Web interface. For a description, see chapter 3.12 “Trend display”, page 59.

**NOTE**

On 3.5” touch panels, only the step display is possible.

If values are deleted from the trend memory in the interim, this area is shaded light red. If invalid values are recorded, this area is shaded light blue.
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