



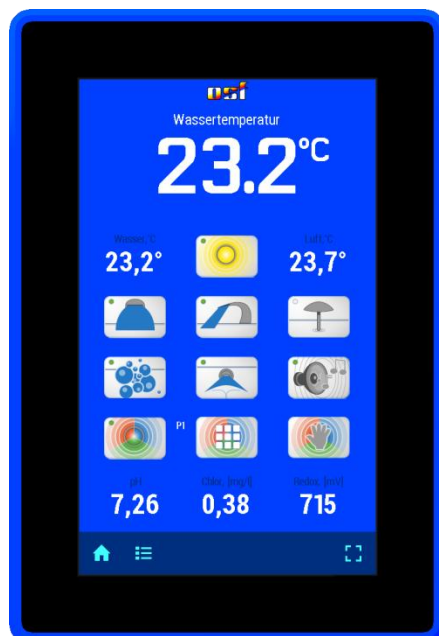
Installation and Operating Instructions



TOUCH

External control panel Touch-50 exclusiv (flush-mounted)

Art. No. 310.000.0770



Function

The **OSF** flush-mounted control panel allows for the remote control of important functions for the following **OSF** control systems:

- **OSF** Filter and backwash control systems EUROMATIK.net, PC-45 exclusiv and PC-40.net.
- **OSF** All WATERFRIEND MRD-1, MRD-2 or MRD-3 dosing systems.
- **OSF** Colour light control systems Color-Control.net and Color-control.plus, each with 3 attractions
- **OSF** Attraction control system for 6 and Attraktion-control.plus with 4 attractions.
- **OSF** Cover-control.plus cover control system.
- **OSF** Alarm-control.plus leak detection unit.
- **OSF** Whirlpool combination.
- **OSF** Silver-Steam steam generator, from 2015

Technical data

Dimensions:	135mm x 196mm x 63mm
Operating voltage:	12V safety extra-low voltage
max. cable length:	50 m
Degree of protection:	IP 65
Connections:	osf bus, LAN

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Installation location

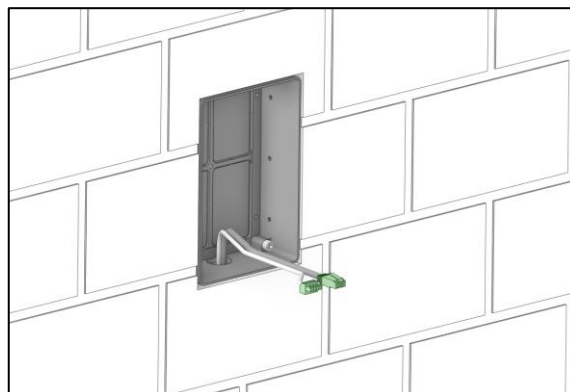
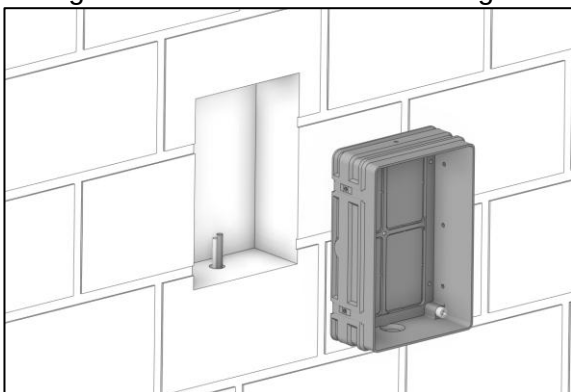
The external control panel includes buttons for operating the swimming pool cover. For this reason, the external control panel must only be installed in a location that allows an unrestricted view of the entire swimming pool. The external control panel may not be installed in positions which do not have an unrestricted view of the swimming pool! It is not suitable for outdoor installation.

Tip: The installation height above the floor depends on the height of the main user. We recommend that the top edge of the panel is approximately at eye level.

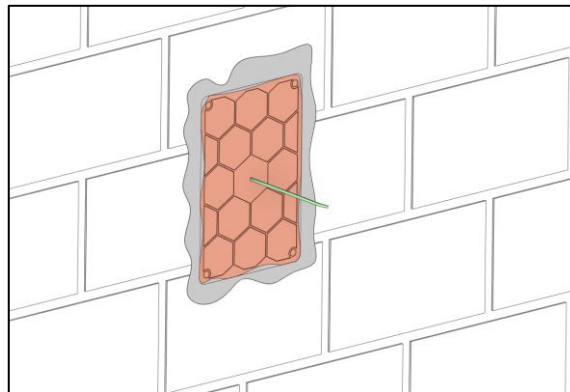
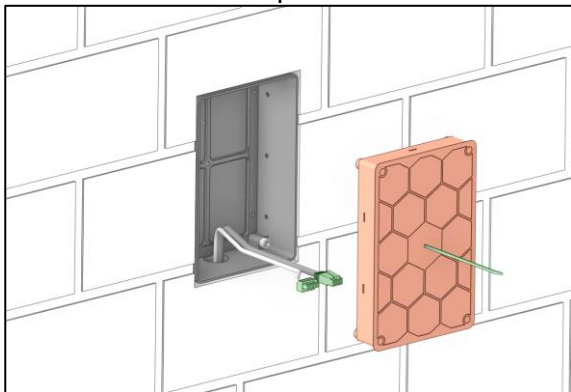
Installation in masonry

The control panel is designed for flush-mounting using the supplied flush-mounting box. Before opening the housing, the device must be disconnected from the power supply.

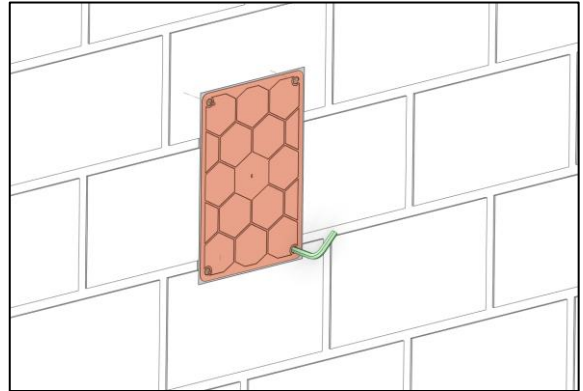
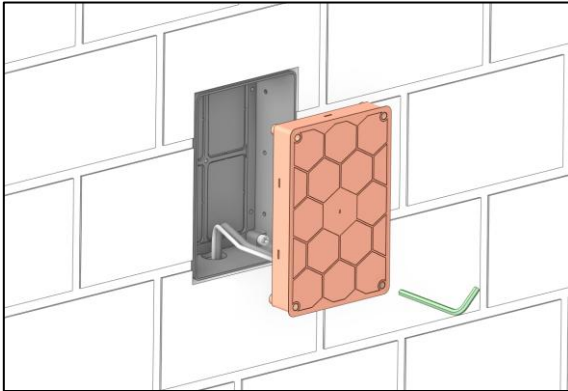
1. Create a recess of H x W x D: 187 x 127 x 60 mm in the wall.
2. Depending on the cable position, push out the cable entry from the flush-mounting box.
3. Align the flush-mounting box in front of the wall recess as follows:
 - horizontally
 - vertically
 - the front edge of the flush-mounting box must be flush with the wall!
 If necessary, the supplied mounting strap can be used, which must be slid onto the sides of the flush-mounting box.
4. When inserting the flush-mounting box, feed the supply and communication cable (Ethernet) through the hole in the flush-mounting box.



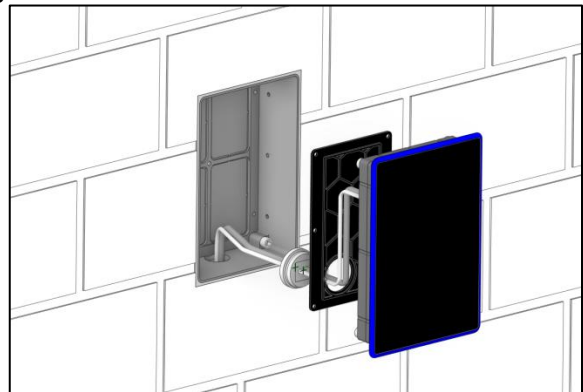
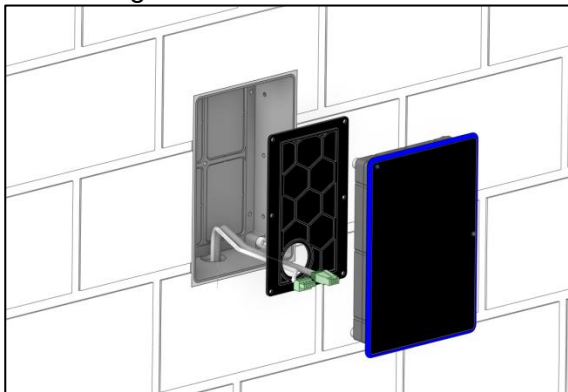
5. Use the protective cover for the flush-mounting box during plastering. Cable ties make it easier to remove the protective cover.



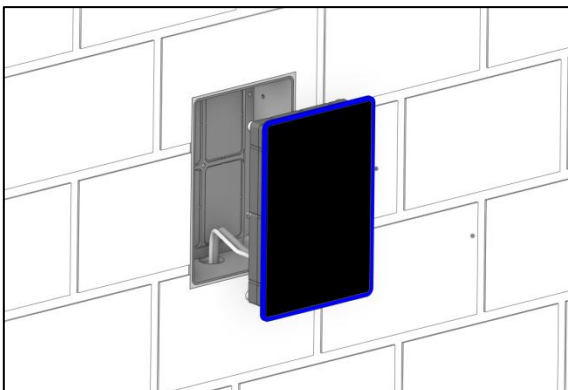
6. To install the display flush with the wall, you must first adjust the position of the bolts to which the display is attached by magnets. This can be done using a protective cover through the break-out holes, as the shape and dimensions of the protective cover are identical to the dimensions of the display.



7. The control panel must be installed in the flush-mounting box by an electrician after the wall has been tiled and grouted.
8. Feed the power and communication cable through the opening in the housing cover and then seal it with the supplied cable grommets.
9. Connect the cables to the control panel in accordance with the installation and operating instructions. The terminals are located on the back of the circuit board.
10. Screw the display cover and display housing together. To prevent water ingress, all screws must be tightened. The seal must not be damaged.



11. Slide the control panel into the flush-mounted box; it is held in place by magnets.
12. The plastic frame on the display glass serves as edge protection.



Electrical connection

The electrical connection, as well as adjustment and service work, may only be carried out by an approved, qualified electrician! The enclosed connection diagrams and the applicable safety regulations must be observed.

Low-voltage lines

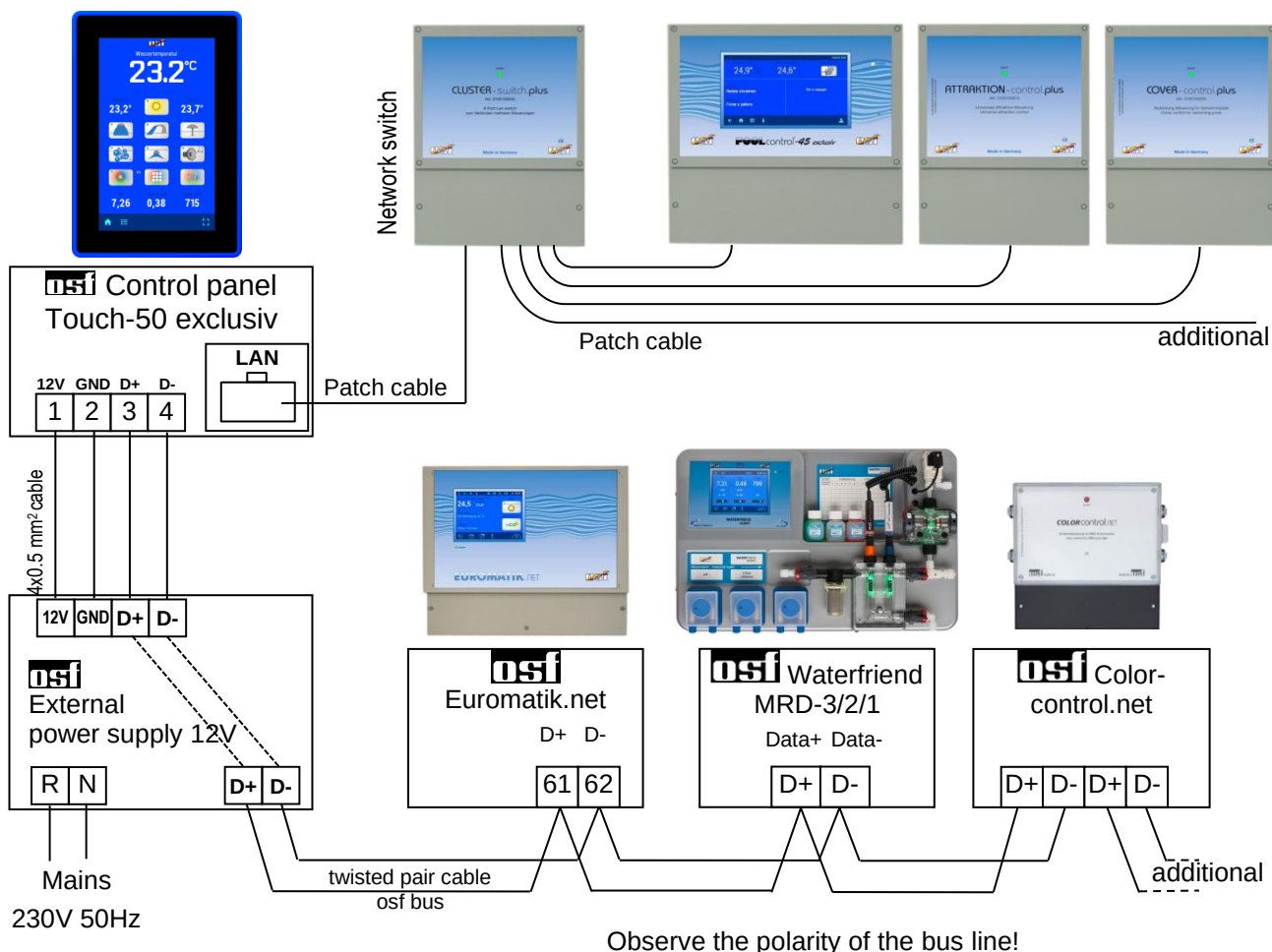
Extra-low voltage cables must not be laid in the same cable duct as three-phase or alternating current cables. Laying extra-low voltage cables near three-phase or alternating current cables should generally be avoided.

Connection diagrams

The power for the external Touch-50 exclusiv control panel is supplied via the included external power supply unit. A 4-wire 4x0.5 mm² cable (e.g. J-Y(St)Y 2x2x0.8, art. no. 102.000.1012) with a maximum length of 50 m serves to connect the power supply.

The control panel has two communication channels for communication with osf control units.

- osf bus digital data bus, based on RS485. Requires two wires: Data+ and Data-.
- LAN network. Requires an Ethernet cable (LAN cable).



Connecting devices via the osf digital data bus

Multiple  devices can be connected to the osf bus. Observe the polarity of the bus line!

All devices connected via the osf bus are automatically added to the device list. The device is also removed from the list automatically when the device is disconnected from the osf bus. Below is a list of the devices connected via the osf data bus: Euromatik.net, PC-40.net, Attraktion-Control.net, Color-Control.net, all Waterfriend MRD dosing stations and the Silver-Steam.net steam generator.

Connecting devices via a local area network (LAN)

Devices that are connected via a local area network must first be added to the list of available devices. They are added via the 'Add or remove osf device' menu (see below). Below is a list of the devices that can only be connected via LAN: PC-45 exclusiv, PC-35 smart, MRD-3 with 7" display, MRD-2 smart, Cover-control.plus, Color-control.plus, Attraktion-control.plus and Alarm-control.plus

To communicate with these devices, all controls must be connected to the same local network. The easiest method is to connect all network devices to a network switch. The corresponding  Cluster-switch.plus is available in  our product range. A standard network cable (patch cable, CAT5) must be used for connections.

Operation

Overview



Overview

Device
list

Screen
lock

Info
display

Device list



Menu
settings

Overview

The overview display depends on the devices connected to the touch control panel.

Attraktion-Control



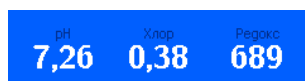
Color-Control.net



Euromatik.net



Waterfriend MRD-3



Silver Steam



In the event of device faults or alarms, an alarm symbol in the form of a semicircle is displayed on the main page to the left of the device readings.

A red light indicates an alarm, yellow a warning (e.g. an empty canister at a dosing station).



Alarm



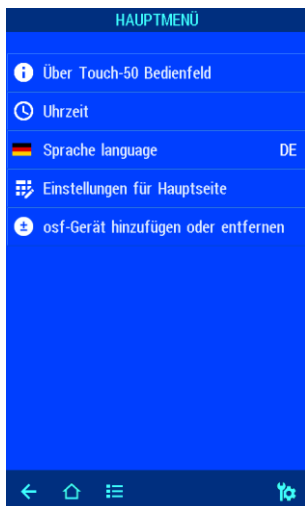
Warning

Device list

All connected devices are shown on this screen. (See the image on the previous page). Each available (linked) device has its own menu structure.

The button  opens to the main menu of the display settings.

Display settings



This menu is used to configure settings that relate to the external control panel itself and not to the devices connected to it.

About the Touch-50 control panel

This menu item opens a screen that displays the version and date of the external Touch control panel program.

Set time

The control panel can automatically synchronise the built-in real-time clock with NTP time servers on the internet if the 'Automatic internet time' function is set to 'ON'. In this case, the local time zone must be set correctly for the time to be displayed correctly (in Germany GMT+1). If the time is not obtained from the internet, the clock can also be set manually. Furthermore, the control panel can optionally switch automatically between summer time and winter time.

Menu language selection

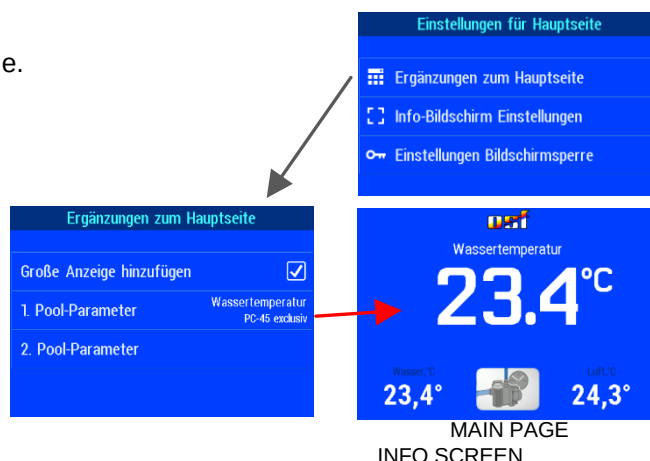
In the Language menu, you can change the language for the external Touch control panel.

Main page settings

These settings affect the appearance of the main page.

- Additions to the main page

In this menu, you can add up to two existing pool parameters in large format to the main page.



- Info screen settings



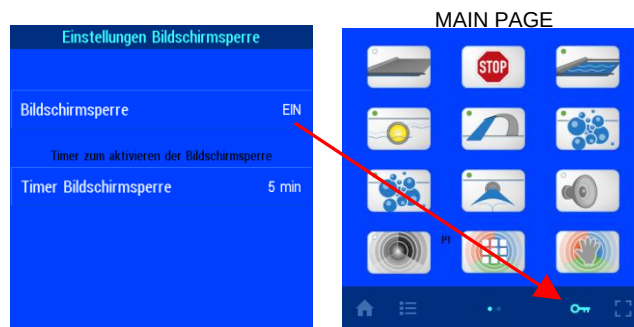
In this submenu, you can customise the appearance of the info screen. The info screen displays the various pool parameters measured by the connected devices.

1. The Info screen settings screen shows the appearance of all info screens. 6 different screens are possible, which alternate at individually set intervals. Each screen can display up to 4 pool parameters.
2. Timer for starting the info screen. This parameter determines after how many seconds of inactivity the control panel screen automatically switches to the info screen display mode. If the time is not set, the info screen can be switched on using the button  on the main screen.

- Screen lock settings

This submenu contains two settings:

1. Screen lock (on or off). When the lock is activated, a key symbol is displayed on the bottom line of the main screen. Pressing this button locks all the buttons on the screen. To release the lock, press the key symbol again and hold it for 5 seconds.
2. Screen lock timer. This parameter determines after how many minutes of inactivity the control panel screen is automatically locked. To release the lock, press the key symbol again and hold it for 5 seconds.



Add or remove osf device (LAN connection)



In this menu, the selected device can be connected to the control panel via LAN. To connect two devices, ensure that both devices are online. After selecting the desired device in the menu, the communication instructions are displayed on the screen. Communication takes place in three steps:

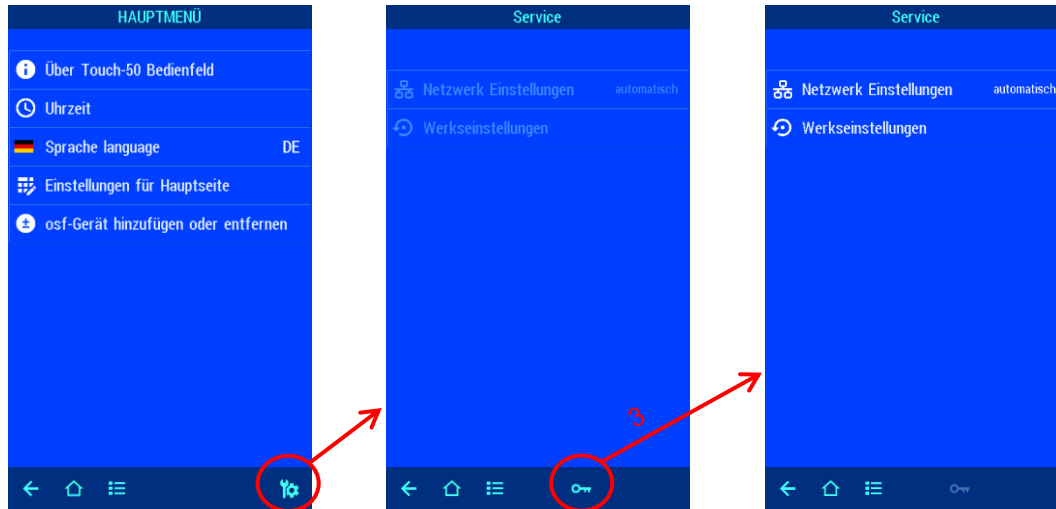
1. Press the start button on the control panel. At the same time, commands to search for the desired device are sent to the network.
2. Press the reply button on the second device to confirm the connection. Note: On some devices, the response button may be on the device screen or it may be a physical LAN button.
3. When the connection is successfully established, the control panel displays the type and serial number of the connected device. To save the connection, press the OK button.

To remove a device from the list of available devices, you must first select it and then remove it after unlocking. To unlock the page, you must press and hold the  button for 5 seconds.



Service functions

The second screen of the display settings contains service utility functions. The menu is initially locked to prevent accidental changes. To switch the protection function to **full access mode**, press and hold the key symbol for three seconds.



Network settings

The Smart Touch device's factory LAN settings enable plug-and-play remote control. If necessary, you can set the IP address manually and prevent the device from communicating with the OSF communication server. (For details, see the 'Internet connection' section.) Access to change settings via LAN is restricted by a PIN code, which can be viewed and changed here.

Netzwerk Einstellungen	
Internetverbindung per osf Kommunikationsserver	☒
IP-Adresse automatisch	☒
IP-Adresse manuell	☐
LAN-PIN	

Factory settings

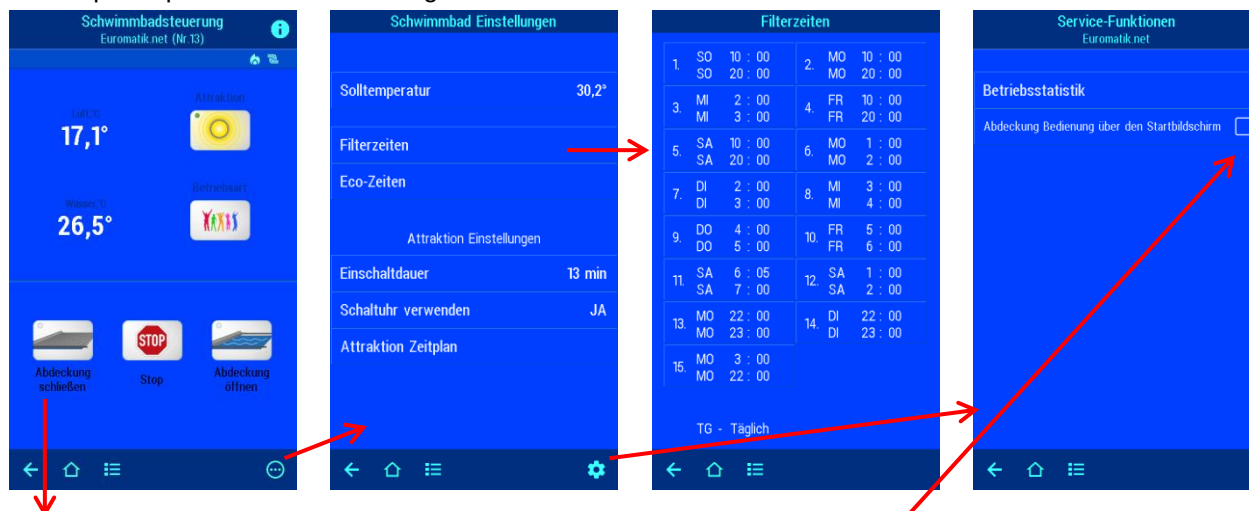
Pressing the 'YES' button will reset all user parameters to the factory settings. All operating logs will remain unchanged.

Menus of the connected devices

The menus of the connected devices on the external touch panel display the most important parameters and settings for pool users. Service and configuration settings are not available via an external touch panel.

Euromatik.net

The menu structure of the Euromatik.net control unit on the external touch panel displays the most important and required parameters and settings.



Swimming pool cover

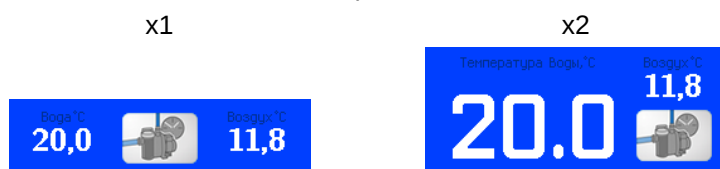
Buttons for cover control can also be placed on the main page.

Warning! Before using these switches, the swimming pool must be visually inspected. The swimming pool cover may only be operated if it is certain that nobody is in the swimming pool and that operating the swimming pool cover will not create a hazardous situation.

PC-45 exclusiv - filter control

In the PC-45 exclusiv filter control, you can change the operating mode and configure the water temperature setpoint.

Via the 'Large view' menu bar, you can select the appearance of the PC-45 exclusiv on the main screen of the control panel.



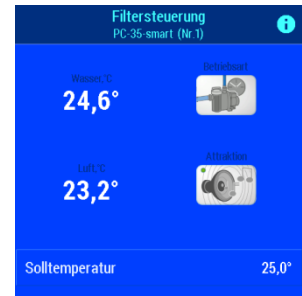
PC-40.net - filter control

In the PC-40.net filter control, you can change the operating mode and configure the water temperature setpoint.



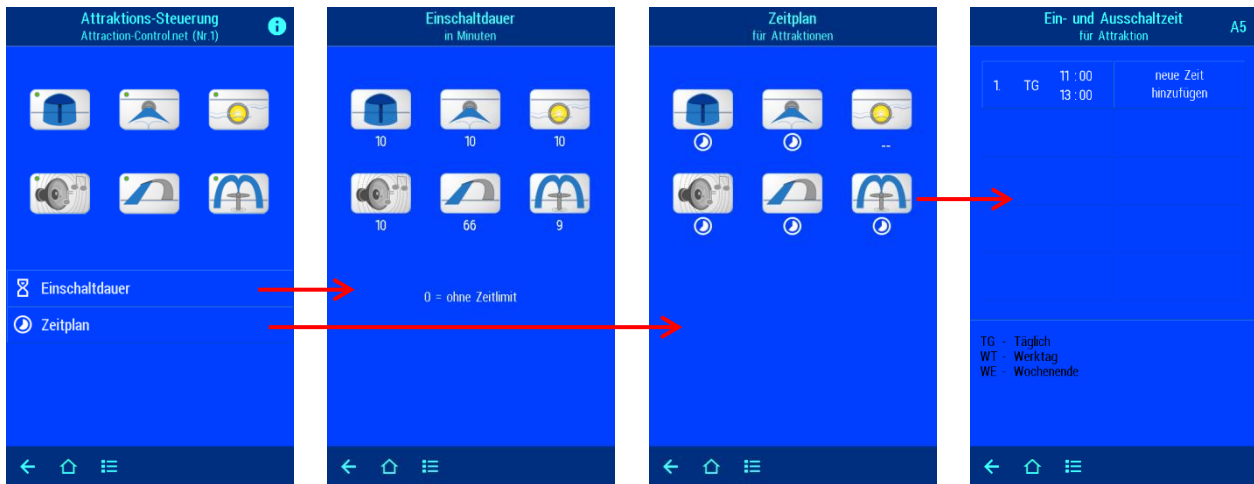
PC-35 smart - filter control

In the PC-35 smart filter control, you can change the operating mode and configure the water temperature setpoint.



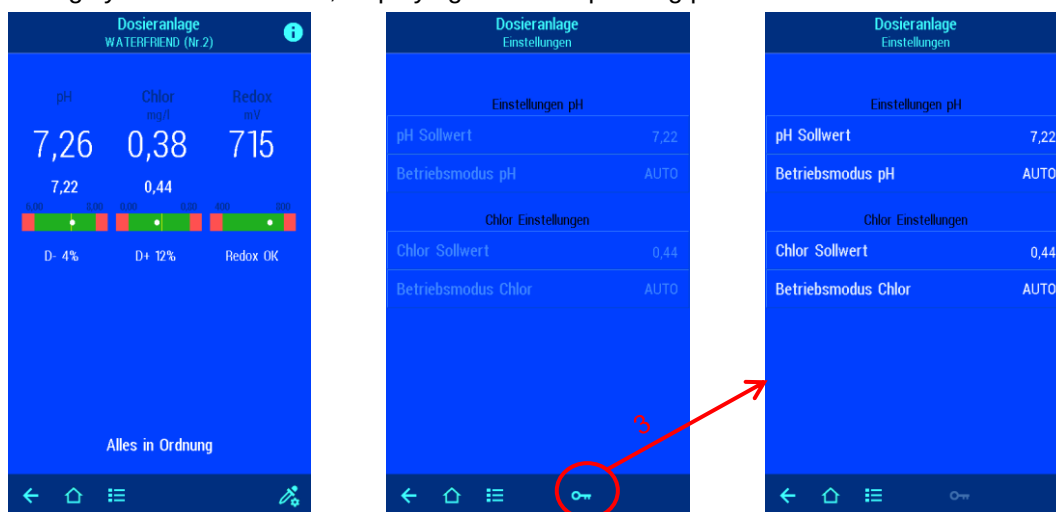
Attraktionssteuerung.NET (Attraction control)

The Attraktionssteuerung.NET (Attraction control) menu on the external smart touch panel displays the most important parameters and settings.



WATERFRIEND - dosing system

The screen of the MRD-3 dosing system is shown below as an example. The screens for the MRD-1 and MRD-2 dosing systems look similar, displaying the corresponding parameters.



The control parameters of the dosing station are protected against accidental adjustment. To remove the protection, you must press and hold the key symbol for 3 seconds.

Color-control.NET - coloured light control

The Color-Control.NET is used to set and control coloured pool lighting and to control three attractions.

Edit the selected colour programme

3 buttons to control the attractions

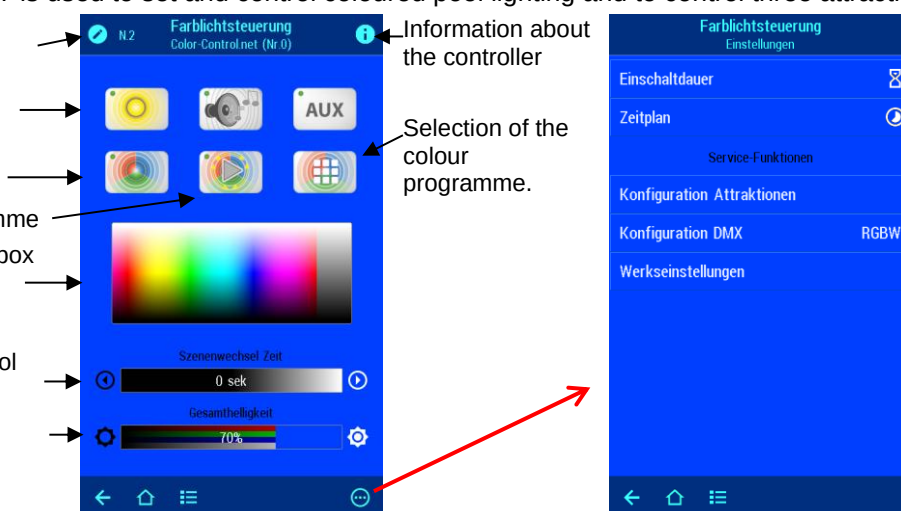
Button to switch on the coloured light

Stop/start colour programme

Current colour selection box

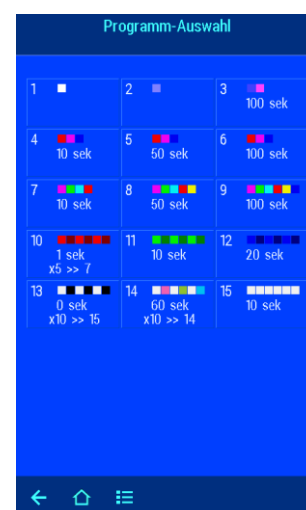
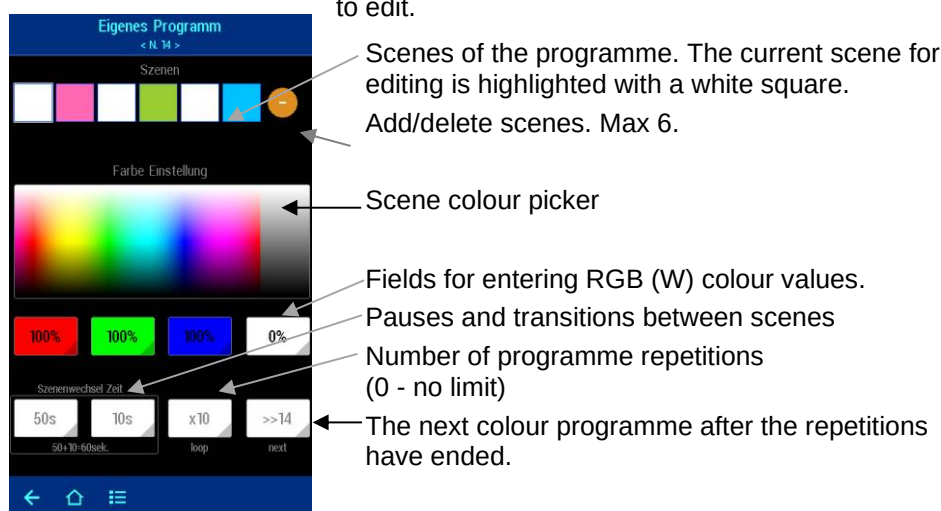
Scene change speed

General brightness control



Edit colour programme

In this menu, you can edit the colour programmes after selecting the programme to edit.

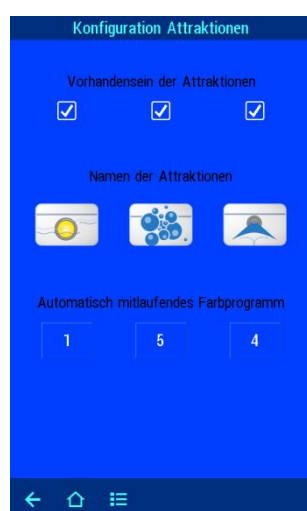


Attraction configuration

Here you can define whether the attraction is present. Attractions that are not present will not be displayed on the control and settings screens.

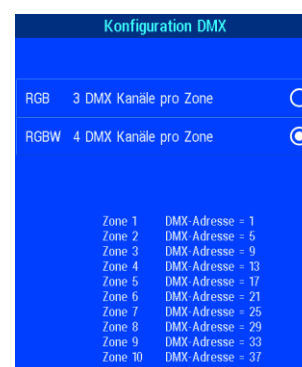
Assign a name to the attraction by selecting an image for it.

Additionally, specify the number of the colour programme that should run in parallel with this attraction.



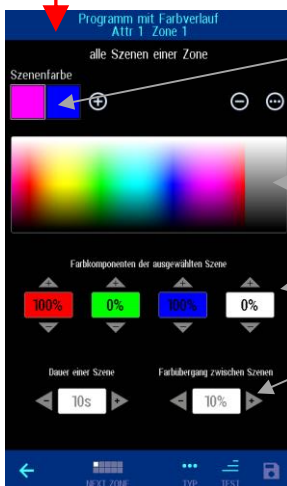
DMX output configuration

Here, you can set the number of DMX channels per zone. This allows you to control both RGB floodlights and RGBW with additional white colour. Color-Control.net can control 10 zones independently. To implement a complex colour composition consisting of multiple DMX projectors shining in different colours, different projectors must be set up for different zones, and correspondingly different colour schemes for scenes must be set for each zone.



Color-control.plus - coloured light control

Color-Control.NET is used to configure and control coloured pool lighting and to control three attractions. Runtime limits and timers can be set for each attraction. 15 independent switching cycles can be programmed for each attraction and can also start a colour programme. In the colour programme icon, the number of petals corresponds to the number of scenes. For colour programmes with colour gradients, a minimum of 2 and a maximum of 6 scenes are possible.



Editable scenes of the colour programme. Here are 2 scenes.

⊕/⊖ - Add/delete scenes.

⋮ - Edit colours of scenes: copy, paste, rotate.

Scene colour picker

Fields for entering RGB (W) colour values.

Pauses and transitions between scenes

💾 - Save colour programme.

≡ - Test colour programme without saving.

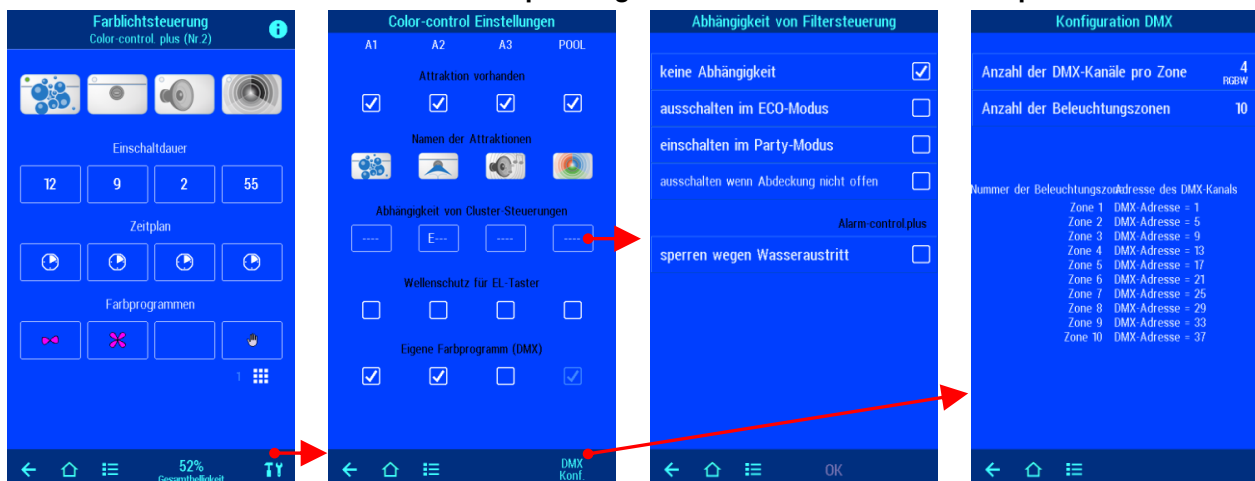
⋮ - Select the type of colour programme: Continuous light or colour gradient.

Next Zone – Here, you can switch zones if multiple zones are present in the colour programme.

Configuring Color-control.plus

The configuration pages can be be accessed in full access mode (see the 'Service functions' chapter).

Please also refer to the installation and operating instructions for Color-control.plus.



Attraktion-control.plus - attraction control

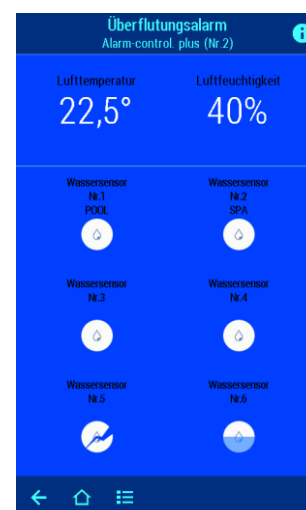
Here you can set runtime limits and timers for all attractions. 15 independent switching cycles can be programmed per attraction. The number of attractions depends on the configuration.



Alarm-control.plus - leak detection unit

In this menu, you can see the status of the temperature and humidity sensors in the plant room, as well as the status of all leak sensors.

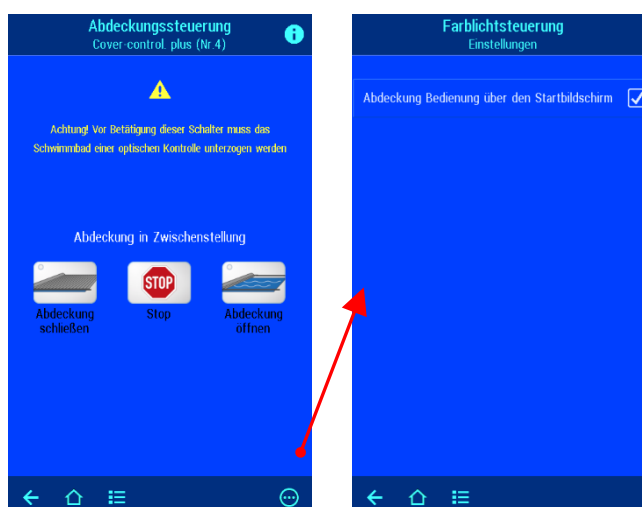
A collective image of all sensors is displayed on the main page.



Cover-control.plus - control unit for the pool cover

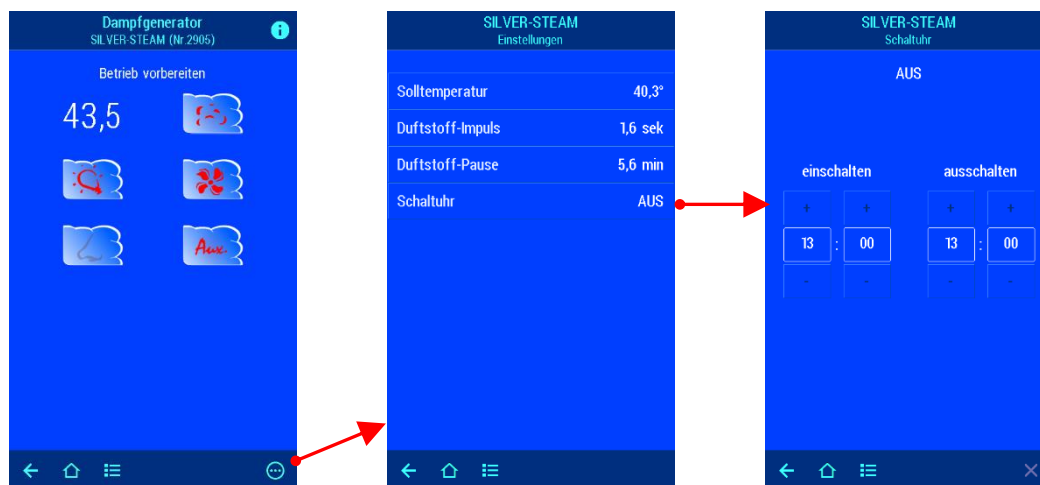
The pool cover can be controlled from this menu. **Warning! Before operation, ensure that there are no people in the pool. The device should be located in a place from which the entire pool can be seen.**

In the additional menu, you can specify that the buttons for the cover control are displayed on the main page.



Silver-Steam - steam generator

The menu of the Silver-Steam steam generator on the external Smart Touch panel displays the most important parameters and settings. Further details on the settings can be found in the instructions for the steam generator.



Please also refer to the installation and operating instructions of the connected **TSI** devices.

Further information can be found on the Internet at the following address:

https://osf.de/download/documents/documents.php?device=Touch-50_exclusiv



Relax and enjoy your swimming pool!

Subject to change! **TSI** April 26

