

TopView 4

Visualisation system for TOPAX[®] MC controllers

Operating instructions



Read the operating manual!

The user is responsible for installation and operation related mistakes!

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1 Notes for the Reader

This operating manual contains information and behaviour rules for the safe and designated operation of the TopView 4 system and the corresponding software.

Observe the following principles:

- Read the entire operating manual prior to starting-up the device.
- Ensure that everyone who works with or on the device has read the operating manual and follows it.
- Maintain the operating manual throughout the service life of the device.
- Pass the operating manual on to any subsequent owner of the device.

1.1 General non-discrimination

This operating manual uses only the masculine gender in cases in which the rules of grammar would allow for gender allocation. This approach serves the purpose of legibility. Men and women are always addressed equally.

1.2 Explanation of the signal words

Different signal words in combination with warning signs are used in this operating manual. Signal words illustrate the gravity of possible injuries if the risk is ignored:

Signal word	Meaning
DANGER	Refers to imminent danger. Ignoring this sign may lead to death or the most serious injuries.
WARNING	Refers to a potentially hazardous situation. Failure to follow this instruction may lead to death or severe injuries.
CAUTION	Refers to a potentially hazardous situation. Failure to follow this instruction may lead to minor injury or damage to property.
PLEASE NOTE	Refers to a danger which, if ignored, may lead to risk to the machine and its function.

Tab. 1: Explanation of the signal words

1.3 Explanation of the warning signs

Warning signs represent the type and source of a danger:

Warning sign	Type of danger
	General danger
	Danger from electrical voltage
	Danger of damage to machine or functional influences

Tab. 2: Explanation of the warning signs

1.4 Identification of warnings

Warnings are intended to help you recognise risks and avoid negative consequences.

This is how warnings are identified:

Warning sign	SIGNAL WORD
Description of danger. Consequences if ignored. ⇒ The arrow signals a safety precaution to be taken to eliminate the danger.	

1.5 Identification of action instructions

This is how pre-conditions for action are identified:

- ✓ Pre-condition for action which must be met before taking action.
- ✗ A resource such as a tool or auxiliary materials required to perform the operating instructions.

This is how instructions for action are identified:

- ➔ Separate step with no follow-up action.
- 1. First step in a series of steps.
- 2. Second step in a series of steps.
 - ▶ Result of the above action.
- ✓ **Action completed, aim achieved.**

2 Safety

2.1 General safety precautions

The following warnings are intended to help you eliminate the dangers that can arise while handling the device. Risk prevention measures always apply regardless of any specific action.

Safety instructions warning against risks arising from specific activities or situations can be found in the respective sub-chapters.

	DANGER
Danger to life due to electric shock and cable break Wrongly connected or located cables or damaged or wrong ones can injure you. ⇒ Replace damaged cables without delay. ⇒ Do not use extension cables. ⇒ Do not bury cables. ⇒ Secure cables to avoid being damaged by other equipment. ⇒ Always lay cables according to local regulations. ⇒ Lay the specified cables. ⇒ Do not expose the unit and its connection cables to water or moisture.	

	WARNING
Increased risk of accidents due to insufficient qualification of personnel The device may only be installed, operated and maintained by personnel with sufficient qualifications. Insufficient qualification will increase the risk of accidents. ⇒ Ensure that all action is taken only by personnel with sufficient and corresponding qualifications. ⇒ Prevent access to the system for unauthorised persons.	

	PLEASE NOTE
Do not dispose of the device in the domestic waste! Do not dispose of electric devices via the domestic waste. ⇒ The device and its packaging must be disposed of in accordance with locally-valid laws and regulations. ⇒ Dispose of different materials separately and ensure that they are recycled.	

2.2 Hazards due to non-compliance with the safety instructions

Failure to follow the safety instructions may endanger not only persons, but also the environment and the device.

The specific consequences can be:

- Failure of major unit and system functions.
- Hazard to swimmers resulting from misinterpretation and incorrect configuration
- Danger to the environment from overdosing

2.3 Working in a safety-conscious manner

Besides the safety instructions specified in this operating manual, further safety rules may apply. Always observe all safety-related regulations and guidelines applicable at the product's location of use. Note in particular the following items:

- Safety regulations on handling electricity and live components
- Safety regulations on handling hazardous substances
- Accident prevention regulations
- Safety and operating provisions
- Environmental protection provisions
- other applicable directives and laws

2.4 Personnel qualification

Any personnel who work on the device must have appropriate special knowledge and skills.

Anybody who works on the product should meet the conditions below:

- Attendance at all the training courses offered by the owner
- Personal suitability for the respective activity
- Sufficient qualification for the respective activity
- Training in how to handle the device
- Knowledge of safety equipment and the way this equipment functions
- Knowledge of this operating manual, particularly of safety instructions and sections relevant for the activity
- Knowledge of fundamental regulations regarding health and safety and accident prevention

All persons must generally have the following minimum qualification:

- Training as specialists to carry out work on the device unsupervised
- Sufficient training that they can work on the device under the supervision and guidance of a trained specialist

These operating instructions differentiate between these user groups:

2.4.1 Specialist staff

Thanks to their professional training, knowledge, experience and knowledge of the relevant specifications, specialist staff are able to perform the job allocated to them and recognise and/or eliminate any possible dangers by themselves.

2.4.2 Trained electricians

Due to their professional training, knowledge and experience as well as knowledge of specific standards and provisions, trained electricians are able to do the electrical work assigned to them and to recognise and avoid any potential dangers by themselves.

They are specially trained for their specific working environment and are familiar with relevant standards and provisions.

They must comply with the legally binding regulations on accident prevention.

2.4.3 Trained persons

Trained persons have received training from the operator about the tasks they are to perform and about the dangers stemming from improper behaviour.

Trained persons have attended all trainings offered by the operator.

2.4.4 Personnel tasks

Qualification	Activities
Specialist staff	■ Commissioning ■ Shut-down ■ Fault resolution ■ Maintenance ■ Disposal
Trained electricians	■ Installing the electrics ■ Rectifying electrical faults
Trained persons	■ Operation ■ Storage ■ Transportation

Tab. 3: Personnel tasks

3 Intended use

3.1 Notes on product warranty

Any non-designated use of the device can impair its function and the protection provided. This leads to invalidation of any warranty claims!

Please note that liability is on the side of the user in the following cases:

- The dosing pump is operated in a manner which is not consistent with these operating instructions, particularly safety instructions, handling instructions and the section "Intended Use".
- Information on usage and environment (see section 5 "Technical data") is not adhered to.
- If people operate the device who are not adequately qualified to carry out their respective activities.
- Unauthorised changes are made to the device.

3.2 Intended purpose

The TopView 4 visualisation software is able to display the data of up to 16 TOPAX® MC controllers. TOPAX® MC controllers measure the values of the treated water and control the connected dosing systems installed for water treatment. Its main application is to maintain the quality of water by evaluating the measured values (of e.g. chlorine, pH, Redox, total chlorine as well as conductivity).

The controllers are connected to the TopView 4 via Modbus TCP network. The TopView system operates on a microcomputer (TopView CPU module) with a low power consumption. Visualisation is performed via network access with a web browser via LAN/WLAN.

Depending on the TopView license acquired, users working in public swimming pools can keep a log, archiving all alarms issued and values measured. User-specific display configurations can be generated for up to ten users.

All other types of use are prohibited and will invalidate the warranty.

3.3 Foreseeable misuse

The following section provides information regarding the device applications which are classified as non-intended use. This section is intended to allow you to detect possible misuse in advance and to avoid it.

Foreseeable misuse is assigned to the individual stages of the product lifetime

3.3.1 Incorrect assembly/installation

- Non-fused or non-standard mains voltage
- Not possible to immediately or easily disconnect the power supply
- Wrong connecting cables for mains voltage
- Wrong configuration of the system
- Insufficiently-ventilated installation location or a covered housing

3.3.2 Incorrect start-up

- Connected TOPAX® controller do not work correctly or are not calibrated
- Wrong configuration of the software

3.3.3 Incorrect operation

- Protective equipment not functioning correctly or dismantled
- Unauthorised modification of the hardware
- Ignoring of alarm or error messages
- Elimination of alarm or error messages by insufficiently-qualified personnel

3.3.4 Incorrect maintenance

- No regular control of function (log files, diaries, display)

4 Product description

4.1 Scope of delivery

Please compare the delivery note with the scope of delivery. The following components are available for the product. The scope may be less for some versions.

- Power supply unit with a range of country-specific plugs
- TopView CPU module
- Optional network cable

4.2 Difference between the versions

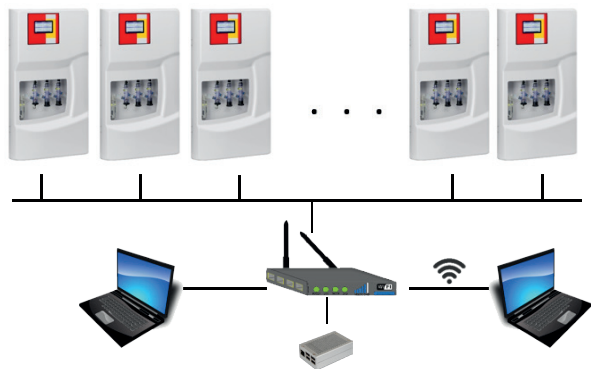
There are two different TopView 4 versions available: Mini and Standard. The Mini version contains only the basic components consisting of the TopView CPU module, a power supply unit, an SD card with a pre-installed operating system and TopView licence and a USB flash drive for data logging. The Standard version also has an extension for writing operating logs in accordance with DIN 19643.



Please note that the information contained in this operating manual applies to both versions. Any exceptions to this are marked clearly.

4.3 Design and function

4.3.1 Schematic Diagram



4.3.2 Description

One or more TOPAX® MC (or also controllers fitted on water sampling stations) are connected in an Ethernet network. TopView 4 is installed in the same network via LAN cable. The initial configuration of TopView is performed via WLAN; TopView provides a hotspot for this purpose. After configuration, TopView collects the data of the connected controllers via the network and generates daily logs, graphs, bar charts and displays the current values of the controllers on one or more display devices in a clear fashion. This requires a device with an up-to-date web browser and a large display, located in the same network. Up to ten users with individualised displays can be created. The measured data is saved on the TopView USB flash drive. The TopView interface can be forwarded via the Internet, e.g. via a VPN or desktop sharing tool; the responsible network operator is responsible for setting this up.

4.4 Rating plate

There is information on the product about safety or the product's way of functioning. The information must stay legible for the duration of the service life of the product.

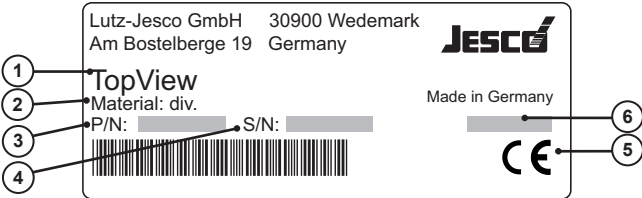


Fig. 1: Rating plate

Item	Description
1	Description
2	Materials
3	Part number
4	Serial number
5	Label showing conformity with applicable European directives
6	Month/year of manufacture

Tab. 4: Position numbers rating plate

5 Technical data

5.1 Power supply unit

- Interchangeable mains power supply adapter for Great Britain, Europe, Australia and the USA
- Input: 100 – 240 V AC, 50 – 60 Hz
- Output: 5.1 V DC, max. 2.5 A
- 1.5 m cable
- Short circuit, overload and overvoltage protection
- Low standby power consumption
- Double insulation in accordance with Class II
- Micro USB
- Power output 13 W

5.2 TopView CPU module

- Single circuit board computer
- Broadcom BCM2837B0 CPU
- ARM Cortex A53 4 core
- Broadcom VideoCore IV GPU
- 1024 MB DDR2 RAM
- CPU 1200 MHz
- LAN 10/100
- HDMI connection
- USB ports x 4 with USB flash drive 32 GB
- WLAN b/g/n
- Bluetooth®
- MicroSD slot with 8 GB card
- Aluminium housing 90x58x29 mm (LxWxD)

6 Installation

6.1 Choose installation location

	WARNING
Damage to the unit due to wrong installation location The device may only be set up and installed by personnel with sufficient qualifications. ⇒ Ensure compliance with all the criteria for selection of the installation location. ⇒ Take measures to ensure that unauthorised persons cannot alter the installation.	

Select an installation location in accordance with the following criteria:

- Find a suitable location with access to the network in which the TOPAX® MC controllers are integrated.
- Select a well-ventilated location without exposure to direct sunlight.
- Choose a location far from power lines or similar to prevent interference.
- Set up the device on a stable, flat, non-conductive and even surface.
- Secure the unit against slipping.
- Make sure that the device does not come into contact with conductive objects.
- Do not expose the unit to water or moisture.
- Do not expose the device to any source of heat, as the TopView CPU module is designed to operate reliably in normal ambient temperatures and non-condensing air humidity.
- Make sure that no objects can be placed on the ventilation holes of the housing.
- Secure all connected cables against kinking and install strain reliefs if necessary.
- Make sure that the TopView system remains easily accessible for the operator.

- ✓ Make sure that the power supply unit and the TopView CPU module have been unpacked and are intact.
- ✓ Ensure the suitability of the installation location.
- ✓ Ensure that a controller or a LAN with several controllers are available.

Perform the following work steps:

1. Make sure that the Micro SD card has been connected correctly.
 2. Make sure that the USB flash drive has been connected correctly.
 3. Connect a network cable to the LAN socket of the TopView CPU module.
 4. Connect the other end of the network cable directly to the TOPAX® controller or to a network switch or router to which several controllers are connected.
 5. Connect the power supply unit to the TopView CPU module and select the plug adapter appropriate to your country.
 6. Fix the cable and the TopView CPU module
 7. Insert the power supply plug in the intended outlet socket.
 - ▶ Initial start of the TopView CPU module with TopView software.
- ✓ **Electrical installation completed.**

6.2 Electrical installation

	DANGER
Danger to life due to electric shock and cable break Wrongly connected or located cables or damaged or wrong ones can injure you. ⇒ Always replace damaged cables without delay. ⇒ Do not use extension cables. ⇒ Do not bury cables. ⇒ Secure cables to avoid being damaged by other equipment. ⇒ Always lay cables according to local regulations. ⇒ Ensure that the power supply socket is correctly fused and that a fault current circuit breaker is installed.	

Pre-conditions for actions:

7 Commissioning

Commissioning is divided into various steps:

- Set up TopView via WLAN
- Set the controller IPs and perform the network settings
- Create user
- Set up the interface

7.1 Setting up TopView

Precondition for action:

- ✓ The TopView CPU module has been electrically installed and switched on.
- ✓ The controller(s) have been switched on.
- ✂ A laptop or WLAN-capable PC is on hand.

Perform the following work steps to establish a connection to the access point:

1. Connect your terminal device with "Lutz_Jesco_Access_Point".
2. Enter "WLAN123!" (no quotation marks) when the password query is displayed.
- ✓ **Connection established.**



Then change the password to ensure a secure connection.

Perform the following work steps to access the TopView web server via a web browser:

1. Open an up-to-date web browser, e.g. Firefox, Chrome, Edge etc.
2. Enter the following in the address bar: "192.168.111.1".
 - ▶ The TopView Start page will open.
3. If your PC does not have up-to-date certificates, ignore the non-secure connection. You can also create a new certificate or upload a certificate for the secure TLS connection.



The certificates are not required in a local area network (LAN). Although this message also appears there, it can be switched off in the server's certificate settings.

Perform the following work steps to generate a new security certificate:

1. After connecting to the web server, click on the "Create a new certificate" button.
2. Enter the host name. Separate the names with ",". You can find out the host name from your router and/or enter the IP address of TopView.
3. Optionally, you can create a certificate afterwards. To do this, click on "Settings/Certificate settings" after logging on to TopView. You can create and upload a certificate here.

- ✓ **The certificate has been successfully created and uploaded.**

Perform the following work steps to log in to TopView.

1. Using an up-to-date browser, navigate to 192.168.111.1.
2. An error message regarding a non-secure connection can be ignored.

3. When starting for the first time, you can log in with the user name "admin" and "Admin123" in the login screen.

- ✓ **You have logged in successfully.**

7.2 Setting controller IP addresses



PLEASE NOTE

Network fault due to insufficient staff qualification

The device may only be installed and operated by personnel with sufficient qualifications. Insufficient qualification increases the risk that e.g. the network will fail.

⇒ Ensure that all action is taken only by personnel with sufficient and corresponding qualifications. Users require a basic knowledge of network technology.

⇒ Make sure that each network address is used in the network only once.

You can integrate your controller in the LAN using the following information:

TopView is set to DHCP (automatic search of network settings) at the LAN socket as standard. This setting can be changed by logging in and making adjustments under "Settings/Network settings".

TOPAX® MC devices are not DHCP-capable, i.e. the IP address must be assigned manually. The TOPAX® MC controller is pre-set to "168.254.55.90". This presetting can be altered in the "Service/Network" menu.



PLEASE NOTE

If you are operating the controller in an existing network, ask your system administrator beforehand as to the address space in which you are permitted to assign fixed IP addresses.

The TopView network interface module must be in the same subnet-work as the TOPAX® MC controllers, regardless of whether it configures itself via DHCP or whether the interface is assigned a fixed IP. Issue each IP address in the network only once!

Sample configuration:

TOPAX® MC device A – IP 192.168.S.A

TOPAX® MC device B – IP 192.168.S.B

TOPAX® MC device C – IP 192.168.S.C

...

TOPAX® MC device X

TopView network interface module 192.168.S.T (or DHCP)

PC for display – IP 192.168.S.P (or DHCP)

With A, B, C, P, T = 1 – 254 and S = 0 – 255

Example network after setup

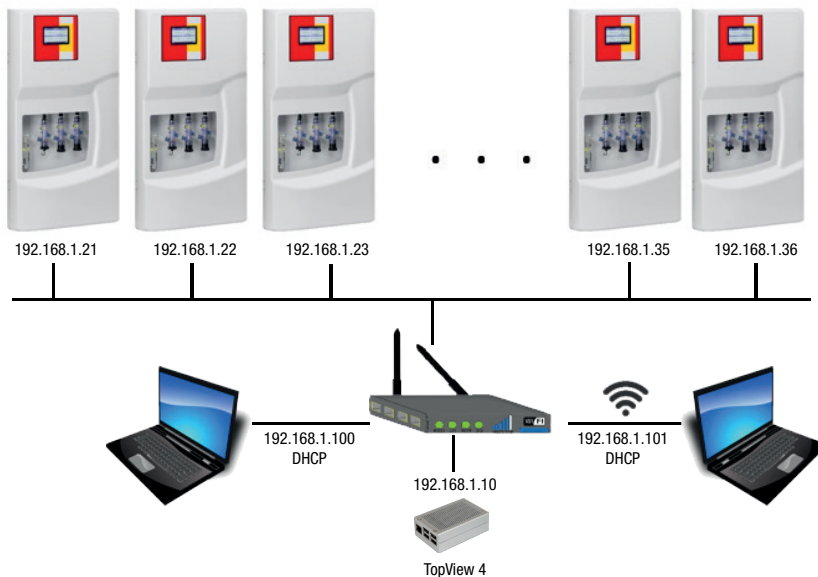


Fig. 2: Example network after setup

Access is achieved via web browser via the address "192.168.1.10".

Sample configuration for the router:

- Address: 192.168.1.1
- Fixed IP range: 192.168.1.2 – 192.168.1.99
- DHCP IP area: 192.168.1.100 – 192.168.1.254

7.3 Creating modules

After TopView 4 has been set up and the IP addresses have been set up for the controllers, the devices must be added and the free modules created in TopView. Devices represent groupings of individual modules, such as EASYPRO series water sampling stations. The individual modules of the groupings (e.g. sensors) are automatically recognised and added by TopView. In addition to the devices, individual free modules such as dosing pumps or similar can be created.

7.3.1 Adding devices

An unlimited number of controllers can be connected to TopView 4, but only a maximum of 16 controllers are displayed on a dashboard.

Perform the following work steps:

1. Working under "Modules", navigate to "New device".
2. Assign the device a name with which it can be identified clearly.
3. Select the device type.
4. Select the address type "IP address" and enter the IP address of the corresponding controller.
5. Click on "Add".

✓ **The controller has been added.**

After the controller has been added, it appears under the "Modules" tab. Clicking on the controller name will display the modules connected to the controller. If you have added several controllers, you can also display all modules under "Modules" > "All modules".

7.3.2 Adding free modules

Perform the following work steps:

1. Working under "Modules", navigate to "Free modules".
2. Click on "+", to add a new module.
3. Select the "Module type".
4. Name each module individually.
5. Working under "Device", select "No device".
6. Select the address type "IP address" and enter the IP address of the corresponding module.
7. Click on "Add".

✓ **The controller has been added.**

7.4 Create user

In total you can create up to 10 users.



The operator must act himself to ensure data protection, as personal data is stored exclusively on the CPU module and cannot be exported.

Perform the following work steps:

1. Working under "User settings", navigate to "User".
 - Existing users are being displayed.
2. Click on "+" to create a new user.
3. State the following information as a minimum:
 - User name
 - Sex
 - E-mail (if the person is a contact person or if the person is to receive e-mails)

4. Optionally, you can add the following information:

- Title
- First name
- Last name
- Sex
- Department
- Phone

5. Choose the permissions for the new user.

6. Choose the desired language.

7. Click on "Create".

✓ **New user created.**



You can change the stored data subsequently. Please note that the changed data will only take effect when you log in again.

2. Enter a valid e-mail server and the preferred port.

3. Enter a sender in the "E-mail sender name" input field, e.g. TopView 4 or Swimming pool X.

4. You can enter an address in the "E-mail sender address" field; the field can also remain empty.

5. Enter valid server access data in the "E-mail account" and "E-mail password" fields.

6. Confirm your actions with the "Save" key.

✓ **You have stored e-mail data successfully.**



For many e-mail servers, it is important that the sender name and sender address are identical, otherwise the server will not accept e-mails.

7.5 Setting up the dashboard

You have the option of setting up different dashboards which are available either to the user logged in or to the public.

Perform the following work steps:

1. Working under "Layout settings", navigate to "Dashboard layout".
2. Working under "Dashboard", select the "New dashboard" option.
3. Name the dashboard.
4. Select the layout of the dashboard.
5. If you wish to make the dashboard available to the public, set a checkmark against "Make dashboard available externally".
6. Set a checkmark there if you wish to hide the inner dividing lines.
7. Determine which data is to be displayed for each field individually.
8. Working under "Level of detail", select the information that is to be displayed on your dashboard.
9. Click on "Save".

✓ **The dashboard has been set up.**

All the dashboards available to you are displayed in the "Dashboard" drop-down menu.

7.6 Setting up email account

TopView 4 provides the option of sending users an e-mail when certain events occur (e.g. when a limit value is exceeded). To do this, you must store an e-mail dispatch server (outgoing mail server) that TopView 4 can use.



Simple SMTP (not recommended), SMTPS (via SSL/TLS) and SMTP via STARTTLS can be used. The ports supported for this purpose are 25, 465 and 587. Port 465 is always for SSL/TLS.

Precondition for action:

- ✓ You have the data for an e-mail server.
- ✓ You have an active internet connection.

Perform the following work steps:

1. Working under the "Settings" menu, navigate to "e-mail".

Example setup of an automatic e-mail.

Example: You wish to receive an e-mail when the pH value at a connected controller exceeds a limit value.

Precondition for action:

- ✓ You have successfully set up the e-mail account in accordance with section 7.6 "Setting up email account" on page 13.
- ✓ The requisite controller is connected to TopView 4, has been set up and is working.

Perform the following work steps:

1. Working in the menu, navigate to "Trigger".
2. Add a new trigger by clicking on "+".
3. For "Trigger name", enter a unique name under which you can find this trigger again, e.g. "Children's pool pH upper limit".
4. Working in the drop down menu, select the trigger type "Module value".
5. Select the corresponding module/pH from the now extended input field.
6. Select "Trigger if" ">" (greater) "7,4".
 - This triggers the action if the selected pH value is greater than pH 7.4.
7. Select "Send e-mail" as the action type.
8. Select a receiver from the now extended menu item.
9. You can set the subject under "e-mail".
10. You can enter a text for the e-mail in the input field, e.g. "Attention! The pH value in the children's pool has exceeded the upper limit of pH 7.4."
11. Click "Create" to confirm.

✓ **You have successfully created an automatic function that sends an email.**



We recommend that you perform a test after creating the trigger. If the e-mail does not arrive, check your spam folder or the "Console" tab in TopView 4 (only the admin has access).

Further information about setting triggers is provided in section 8.3 "Setting triggers" on page 15.

7.7 Storing contact information

Working under “Settings” > “Contact information”, store the most important contact data that will appear in the log entries:

- Name, e.g. name of the swimming pool or company
- Street and number
- Post Code and City
- Owner: main contact partner for TopView

All users who have been created in TopView are displayed under “Contact persons”. Set a checkmark to mark further important contact persons.

8 Operating during operation

8.1 Changing setpoints

TopView 4 allows you to adjust the setpoints of the connected controllers remotely. This requires that the user is in possession of "System administration" authorisation. The administrator can assign it by clicking on the desired user under "User settings" > "User" and setting a checkmark next to "System administration".


WARNING

Hazard for people and environment

The values may only be changed by sufficiently qualified personnel, as over and under-dosing endangers people and the environment.

⇒ Make sure that only sufficiently qualified personnel are authorised to adjust the values.

Perform the following work steps:

1. Working under "Modules", click on "All modules".
2. Click on the tool under the module to be changed.
 - ▶ A window opens in which the current values for "Setpoint 1", "Setpoint 2", "Proportional range", "Derivative time" and "Dwell time" are displayed.
3. Change the values to be changed.



Further information on calculating the values is provided in the operating manual of the single and multi-channel controllers and the corresponding water sampling stations.

4. Click on "Save".

✓ **Values changed.**

8.2 Routines

Working under the heading "Routine", automated processes such as batch dosing can be created via a modular system. As this requires specialist knowledge, routines should only be created by specialists such as automation engineers.

8.3 Setting triggers

Working under "Triggers", you can define different situations which in turn trigger a special reaction such as sending an e-mail or causing an Emergency-Stop.

Perform the following work steps:

1. Navigate to "Trigger".
2. Click on "+".
3. Issue a name to the trigger.
4. Working under "Trigger type", choose between "Module value", "Time value" and "Warning".

Module value

1. Select the module for which you wish to set the trigger.

2. Specify the value at which the trigger is to act.
3. Select an action type and enter the information required for this action type.
4. Specify whether the action of the trigger is to be reversed as soon as the triggering condition no longer exists.

Time value

1. Specify when the reaction is to be triggered and when it is to be repeated.
2. Select an action type and enter the information required for this action type.

Warning

1. Select from "All", "Device", "Module", "Recipe" and "Internal memory" for "Origin of the warning".
2. Select an action type and enter the information required for this action type.

➔ Click on "Create".

✓ **Trigger has been set.**

All stored triggers are displayed under "Triggers".

8.4 Diaries (only standard version)

8.4.1 Making settings

If you have the standard version of TopView 4, you have the option of generating log entries. To do so, you must first specify the times at which manual measurements will be carried out.

Perform the following work steps:

1. Working under "Settings", navigate to "Log".
2. Specify the times at which manual measurements are to be taken.
3. Working under "Device to be measured", select the controller for which the manual measurement is to be carried out for control.
4. Click on "Save".

✓ **Log settings have been performed.**

8.4.2 Manual data entry

The log entries are to be found in the "Logs" tab. You can distinguish between the general site-related logs ("GENERAL") and the controller-related logs under "Log allocation".

The general logs must be completed manually on a daily basis. To do so, click on the pencil in the bottom right-hand side in the field of the current data and enter the following data:

General data (object data)	Cleaning
Opening times	Changing facilities
Visitor	Sanitary facilities
Weather conditions	Showers
Air temperature	Pool edge
	Heated benches
	Sauna facilities

Tab. 5: Additional entries for general log entries

To access the controller-related logs, select the desired controller under “Log allocation”. Click on the pencil at the bottom right of the field displaying the current date to enter data for the following areas manually:

- General data
- Technical data
- Dosing
- Additives
- Manual measurements
- Cleaning
- Troubles/Remarks/Maintenance

8.4.3 Export diaries

Depending on your needs, you can determine how extensive the data of the log entries should be:

- Only object data
- Object data and the data of a controller
- Object data and the data of all connected controllers



Please note that the large volume of data can mean that the export can take a while.

Object data

Perform the following work steps:

1. Navigate to “Logs”.
2. Working under “Log allocation”, select “GENERAL”.
3. Click on “Export logs”.
4. Select the desired date.
5. Click on “Export” on the right.

✓ **The object data has been exported.**

Object data and controller-related data

Perform the following work steps:

1. Navigate to “Logs”.
2. Working under “Log allocation”, select the desired controller.
3. Click on “Export logs”.
4. Select the desired date.
5. Click on “Export” on the right.

✓ **Object data and controller-related data have been exported.**

Alternatively, you can click on the export symbol in the field of the desired date.

Object data and the data of all connected controllers

Perform the following work steps:

1. Navigate to “Logs”.
2. Working under “Log allocation”, select the desired controller.
3. Click on “Export logs”.
4. Set the checkmark next to “Export complete day”.
5. Select the desired date.
6. Click on “Export” on the right.

✓ **Object data and controller data have been exported.**

8.5 Generating backups

Automatic backups can be created to back up and restore your data at any time.

Perform the following work steps:

1. Working under “Backups” navigate to “Settings”.
2. Make the following entries for the “Autosave interval”: “Start date”, “Start time” and “Interval”. You can choose between hourly, daily and weekly intervals.
3. Select up to three saving points. You can choose between the saving points “When starting the server”, “When loading the memory status” and “Regular autosaves”.

✓ **Backup settings have been performed.**

The saved backups can be found in the “Backups” tab under “Backups”.

8.6 Uploading images

You have the option of uploading your own pictures, e.g. of the installed controllers or dosing pumps, which describe the system and simplify the allocation.

Perform the following work steps:

1. Working under “Layout settings”, navigate to “Images”.
2. Click on “+”.
3. Select the type of image. Select “Schematic image” to use an image with which to generate a scheme.
4. Upload the image.
5. Click on “Add”.

✓ **Image uploaded.**

8.7 Create schemes

You can design schemes for your system to depict the layout of the modules and thereby facilitate the allocation.

Precondition for action:

- ✓ You have uploaded a “schematic image”, e.g. a flow chart of the system.

Perform the following work steps:

1. Working under "Layout settings", navigate to "Schemes".
2. Click on "+".
3. Name the scheme.
4. Enter a description.
5. Select the image for the scheme to be generated.
6. Click on "Create".
 - ▶ Scheme uploaded.
7. Click on the scheme to be edited.
8. Select the module you wish to integrate into the scheme.
9. Pull up a box at the place where the module was installed.
10. Repeat the last two steps for all modules that are to be incorporated into the scheme.

✓ **Scheme created.**

8.8 Changing password

Perform the following work steps:

1. Working under "User settings", navigate to "Change password".
2. Enter the current password.
3. Enter the new password.
4. Repeat the new password.
5. Click on "Change".

✓ **Password has been changed.**

8.9 Accessing statistics

TopView 4 automatically creates daily statistics of all recorded measured values. These are stored on the USB flash drive in the server and are tamper-proof.

To access the statistics, remove the USB flash drive from the TopView CPU module and connect it to a computer. The files are stored in the "Statistics" folder according to the device ID and the date. You can either download files or send them via e-mail.

You can also download individual daily statistics working via the "Statistics" tab.

8.10 Clear alarms

All alarm messages are displayed in the upper row. You can clear these also via TopView 4. However, active messages will still be displayed, even if they have been cleared.

Perform the following steps:

1. Click on the warning in the upper row.
 - ▶ All active alarm messages are displayed.
2. Click on the rubbish bin symbol next to the alarm message which you wish to clear.
 - ▶ A new window will open.
3. If you really want to clear the message, click on "OK" in the window.

✓ **Alarm cleared.**

8.11 Triggering the Emergency-Stop

The Emergency-Stop triggers the "Stop" signal on all controllable devices/modules, i.e. the shock chlorination is interrupted with the Topax sensor. Reactivation of the shock chlorination requires its manual start. Please note that the controller cannot be switched off.

➔ Click on "Emergency-Stop" in the upper row.

9 Shutdown and disposal



Please note that the system is not stopped automatically if the server is disconnected from the power supply.

9.1 Short-term shut-down

- ➔ Disconnect the power supply of the TopView CPU module.

9.2 Long-term shutdown

- ➔ Disconnect the power supply of the TopView CPU module and disconnect the network cable.

9.3 Storage

Pre-conditions for actions:

- ✓ The product was shut down in accordance with section 9.2 “Long-term shutdown” on page 18.

Correct storage increases the service life of the TopView components. It is imperative to avoid negative influences such as extreme temperatures, high humidity, dust, chemicals, etc.

Ensure ideal storage conditions where possible:

- The storage place must be dry, free of dust and moderately ventilated
- Temperatures must be between 0 °C and +50 °C
- Relative air humidity must not exceed 90 %

9.4 Transportation

Transport and ship the TopView components in a sturdy transport box, secured against slipping and blows. If possible, use the original boxes for this purpose.

9.5 Disposal

- The product must be disposed of in accordance with applicable local laws and regulations. It should not be disposed of as domestic waste!
- As the disposal regulations may differ from country to country, please consult your supplier.
- In Germany, the manufacturer must provide free-of-charge disposal Provided the product has been safely returned.

10 Maintenance

10.1 Maintenance intervals

This table gives you an overview of maintenance work and the intervals at which you must carry it out.

Interval	Maintenance
daily	■ Visual inspection of the components ■ Control the function in the browser ■ Check the measured values in the browser
Weekly	■ Check the logs ■ Check the log book
Monthly	■ Remove any dust from the components with a dry cloth and compressed air.

Tab. 6: Maintenance intervals

10.2 Software update

If a new software version of TopView 4 is available, you will be informed by the manufacturer. There are two methods to perform a software update:

- Restart the server. This checks whether a new version is available, which is automatically updated.
- Download the new version, remove the USB flash drive from the TopView CPU module and load the zip file onto the USB flash drive.

11 Declaration of no objection

Declaration of no objection

Please fill out a separate form for each appliance!

We forward the following device for repairs:

Device and device type: Part-no.:

Order No.: Date of delivery:

Reason for repair:

.....

.....

Dosing medium

Description: Irritating: ☐ Yes ☐ No

Properties: Corrosive: ☐ Yes ☐ No

We hereby certify, that the product has been cleaned thoroughly inside and outside before returning, that it is free from hazardous material (i.e. chemical, biological, toxic, flammable, and radioactive material) and that the lubricant has been drained.

If the manufacturer finds it necessary to carry out further cleaning work, we accept the charge will be made to us.

We assure that the aforementioned information is correct and complete and that the unit is dispatched according to the legal requirements.

Company / address: Phone:

..... Fax:

..... Email:

Customer No.: Contact person:

Date, Signature:

12 Warranty claim

Warranty claim

Please copy and send it back with the unit!

If the device breaks down within the period of warranty, please return it in a cleaned condition with the complete warranty claim.

Sender

Company: Phone: Date:

Address:

Contact person:

Manufacturer order no.: Date of delivery:

Device type: Serial number:

Nominal capacity / nominal pressure:

Description of fault:

.....
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.....

Service conditions of the device

Point of use / system designation:

.....
.....

Accessories used (suction line etc.):

.....
.....
.....
.....

Commissioning (date):

Duty period (approx. operating hours):

Please describe the specific installation and enclose a simple drawing or picture of the chemical feed system, showing materials of construction, diameters, lengths and heights of suction and discharge lines.

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Operating instructions
TopView 4