



Vision for **water** technology

AQUAVISION2

Instructions

The supplied AQUAVISION2 software version 3.4.01 shall put you in a position to prepare the software for the required expansion stage (1 to 4), commission and operate it.

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Delivery notes

The standard delivery of the AQUAVISION2 software comprises:

- Software for the installation on a CD
- Code sheet
- This documentation
- Software license
- Registration with return answer
- Hardlock (Dongle)
- CANAS converter
- Power supply 12V
- 9 pole cable for communication with a PC

Hardware

The software works with every PC, which operates under the Windows operating system.

PC

For the PC requirements , please see the ALLDOS documentation

Aquaserver

A separate instruction manual is available for this unit.

CANAS

A separate instruction manual is available for this unit.

Hardlocks

The hardlock is connected with the parallel interface of the computer.

There are 2 types of hardlocks:

- FAST - master-hardlocks and old systems (black)
- HASP - new systems (white / USB)

The files are installed by the Indigo installation program. The following files are thus copied to the hard disk:

Windows 9x

The following files should be available in the \WINDOWS\SYSTEM directory in order to make the hardlock respond:

- FAST HARDLOCK.VXD
- HASP HASP95DL.VXD, HASP95.VXD, HLVDD.DLL

Windows NT / Windows 2000

The following files should be available in NT in order to make the hardlock respond:

<u>\WINNT\SYSTEM32</u>	<u>\WINNT\SYSTEM32\DRIVERS</u>
FAST HLVDD.DLL	HARDLOCK.SYS
HASP HASPVDD.DLL	HASPNT.SYS



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In an NT system different registry entries must be made. These filing entries are made automatically by the installation programs.

Manual installation of the drivers (if this failed when installing)

using HASP hardlocks:

The file HINSTALL.EXE on the CD-Rom serves for this.

Start the file with the parameter -i: HINSTALL.EXE -i

using FAST hardlocks:

The file HLDREV32.EXE on the CD-Rom serves for this.

Start the file HLDREV32.EXE

BOTH programs must be executed.

IMPORTANT: You must be registered with administrator rights.

Printer problems

If the hardlock is used with the same interface as the printer, problems might occur sometimes (especially with old HP printers or newer multi-function printers).

- It might happen, that the hardlock is not recognized during the printing process. A red window appears with the corresponding message. This window disappears, if the printing process is finished.
- It also occurs, that the printing process is disturbed or interrupted.

When using FAST hardlocks:

Parameters are changed with the file HLDINST.EXE (CD-Rom). Start the file with the parameter -install -nodpa:

HLDINST.EXE -INSTALL -NODPA

The computer must be re-started.

When using HASP hardlocks:

First install the drivers as described above. Then use the file HINSTALL.EXE in order to install the corresponding parameter.

HINSTALL.EXE -CONTENTION=YES

The computer must be re-started.

Software

Different operating systems

AQUAVISION2 can be operated using Win9x, WinMe, Windows-NT4.0, Windows2000 and Windows XP.

Please observe, that you should be registered with administrator rights to install the software under Windows-NT, 2000 and XP.

Installation of the AQUAVISION2 software

Configuration of the computer

The display configuration should be set to at least 1024x768 pixels.

(configuration / control panel / display / configuration)

As fonts for the operating system *small fonts* should be selected.

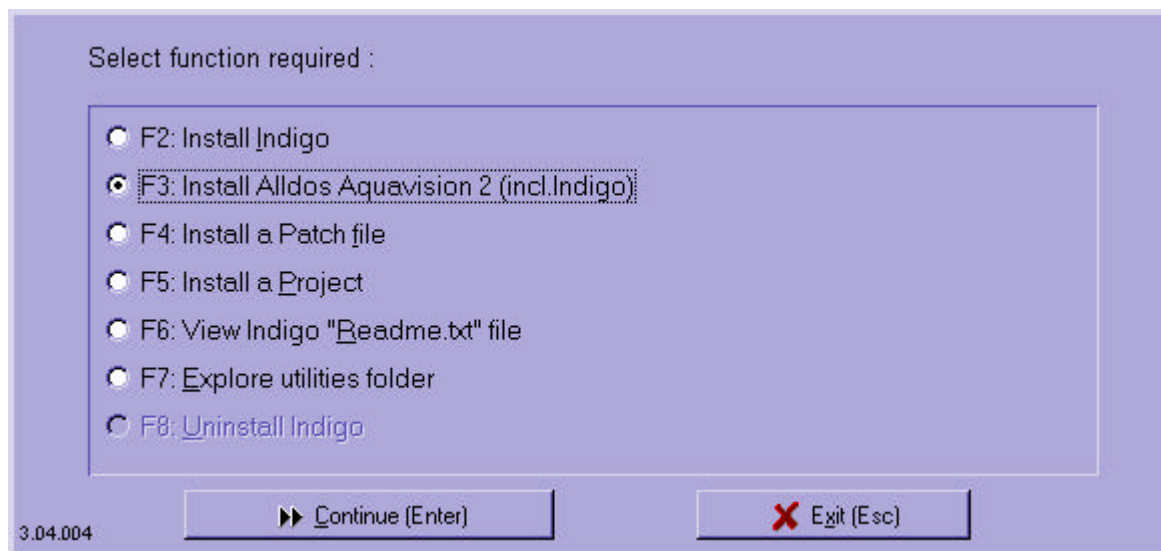
(configuration / control panel / display / configuration / further options / display)

Installation of AQUAVISION2

First install AQUAVISION2 from the CD. The installation is automatically started when inserting the CD. If this is not the case, start SETUP.EXE on the CD.


You are lead through the installation and should make the following entries:

Step 1: Select Option 3 and click to *continue*(Enter)




Step 2: Default configuration should be adopted


Folder into which the executable files of Indigo will be installed

Indigo EXE folder 

Folder into which the user project data files will be organised. If multiple projects are created, then they will all be stored in folders under this folder.

Projects folder 

Folder in which shortcuts to each user project will be stored. These shortcuts will be displayed in the project manager and will be used to start a project.

Projects shortcut folder 

« Prev » Next X Cancel

Step 3: Default configuration should be adopted

Shortcuts will be added into the start menu for Indigo in the following folder :

☒ Add a shortcut to Indigo on the desktop ?

☐ Must the default project start automatically when the computer boots ?

« Prev » Next X Cancel

Step 4: Select the expansion stage of the software you purchased

- Step 1: 1 to 3 Aquaserver-units
- Step 2: 4 to 6 Aquaserver-units
- Step 3: 7 to 9 Aquaserver-units
- Step 4: 10 to 12 Aquaserver-units

Select the project IPR file to be installed from the list below :

Aquavision2 - max 3 Aquaserver.ipr

Aquavision2 - max 6 Aquaserver.ipr

Aquavision2 - max 9 Aquaserver.ipr

◀◀ Prev

▶▶ Next

✖ Cancel

Step 5: Project name and customer's name can be entered here

Project name

Public pool

Customer name

Wavetown

Project file folder

C:\IndProj\Aquavision2

Project IPR file name

Aquavision2 - max 3 Aquaserver

.IPR

Project shortcut name

Aquavision 2

.LNK

◀◀ Prev

▶▶ Next

✖ Cancel

Step 6: Enter the data indicated on the enclosed code sheet (Indigo key file).

Enter the key file details supplied with your hardlock.

Hardlock Serial number	<input type="text" value="7A144AC1"/>	<input type="button" value="Load a key file"/>
INDIGO Release	<input type="text" value="3.04"/>	
Feature code	<input type="text" value="2336 0012 0002 0801"/>	
Unlock code	<input type="text" value="66C8 17B6"/>	

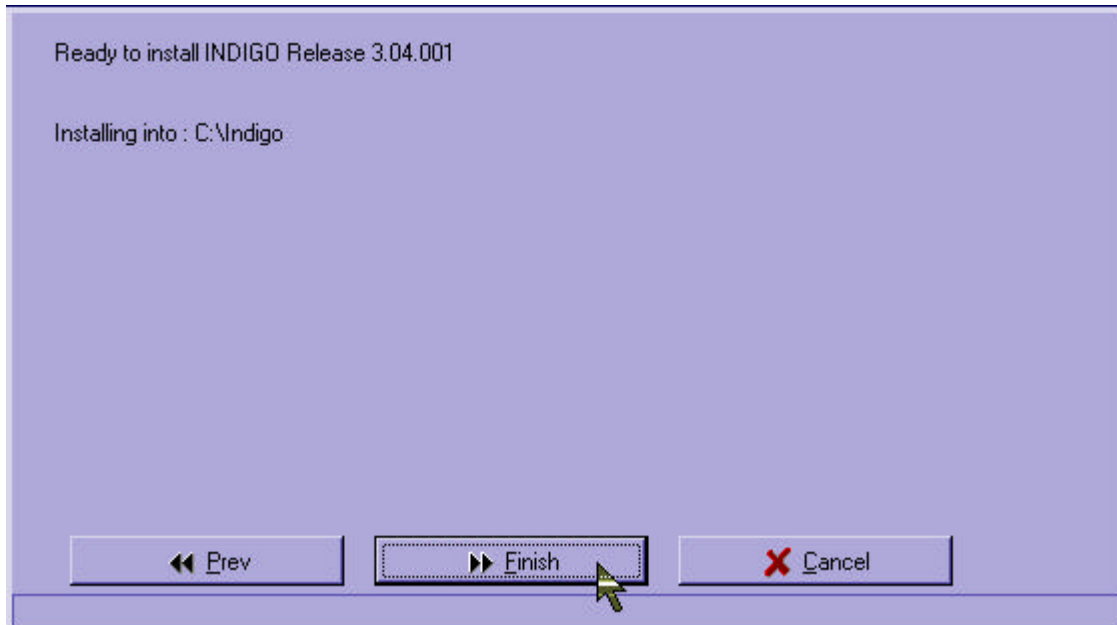
Step 7: Select the serial interface where the CANAS converter is to be connected.

Only valid COM-ports will be shown.

Select the serial port to use for the driver.

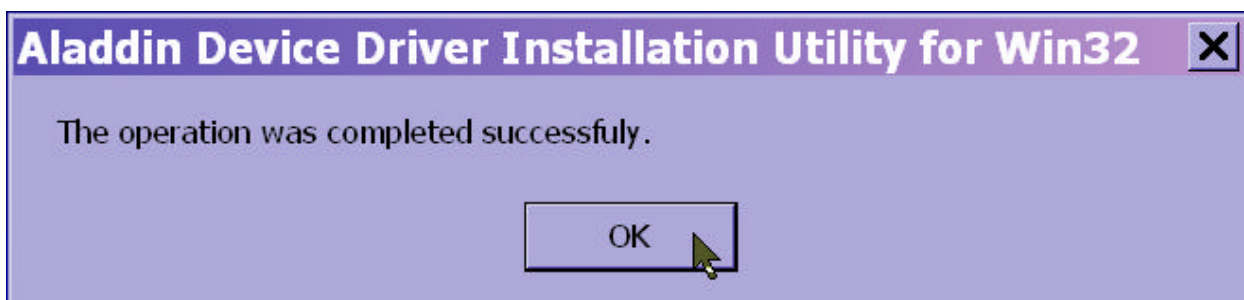
☒ COM_1
☐ COM_2
☐ COM_3
☐ COM_4

Step 8: Start the installation clicking on *Finish*



Step 9: Hardlock files are now installed, select *continue*

At first, the hardlock drivers for the HASP hardlock are installed. Be patient, this may take a while.



Then the drivers for the FAST hardlocks are installed.



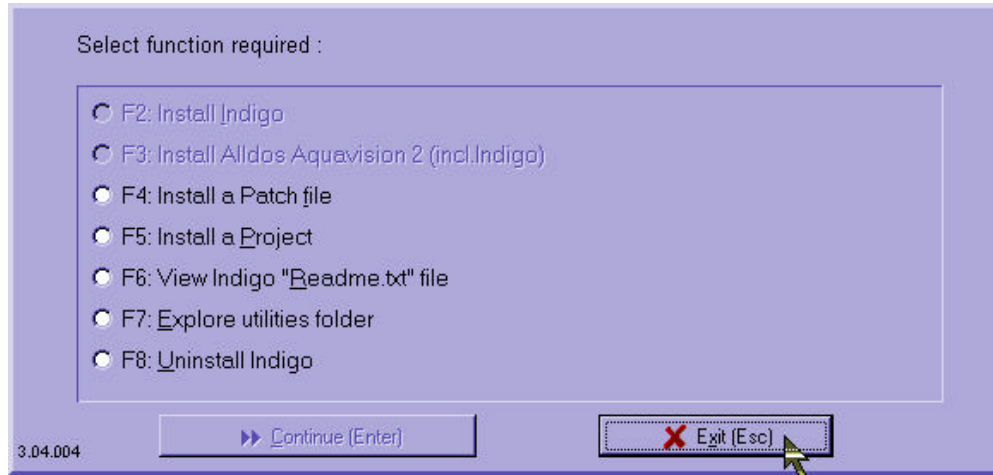
Please observe the indications made in the above mentioned chapter concerning the Hardlock installation.

IMPORTANT: For the installation under Windows 2000 or NT you should be registered with administrator rights.

Step 10: The installation is now finished, select OK



Step 11: The installation program can be exited now. Select *exit*



The hard disk layout – where to find which files

The Indigo program files are filed in the folder **C:\INDIGO** during installation (C: means any hard disk). In this folder you'll find the following sub-folders:

DEMO - contains the Demo project (if you have installed it)

LIB1, LIB2 und LIB3 - graphic libraries, not used here

PROJEKTE - contains the links to the project files. Normally in the AQUAVISION2 software there is only one project to be managed, therefore the projects folder contains only one project file link. You can move the PROJECTS folder wherever you want to, e.g. into the initial Windows menu. The projects folder needs to be redefined in the Project-Manager *Options / change projects folder*

WAV - contains all supplied audio system files

The files belonging to the AQUAVISION2 project can be found in the **project data folder C:\INDPROJ\AQUAVISION2**

The hard disk layout should be as follows:

C:\INDIGO

\	:Program files
\DEMO	:Demo application
\LIB1	empty
\LIB2	empty
\LIB3	empty
\PROJECTS	:link to the project file StepX.IPR (this means Step 1, 2, 3 or 4, according to your order)
\WAV	:audio system files

C:\INDIGO\INDPROJ



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\	:Project data files (poss. in sub-folders)
\BACKUP	:Backup files of the AQUAVISION2 project
\ARCHIVE	:Backup archive hours
\ARCHIVE\TAG-DAY-JOUR	:Backup archive days
\ARCHIVE\MONAT-MONTH-MOIS	:Backup archive months
\COMMON\	:Common project files (if several projects are managed)

How to start the software

In the directory \INDIGO\PROJECTS a link AQUAVISION2 was created (see Installation Step 5). This link starts the project AQUAVISION2.

Automatic start of the software by booting

In Step 3 of the installation an automatic start of the AQUAVISION2 can be activated. You can establish this afterwards by copying the link \INDIGO\PROJEKTE\AQUAVISION2 into the Windows *auto start* directory.

Handling the software AQUAVISION2

After starting AQUAVISION2 a menu bar appears.



Mimics (displays of the individual basins), alarm lists and trend displays can be shown using this menu bar.

In these images further images can be invoked by double-clicking on the violet buttons, e.g. **Alarms**.

If an operator is logged on (see below), further options are automatically displayed.

Generally rule: a special menu referring to the context is invoked by the context menu (click right).

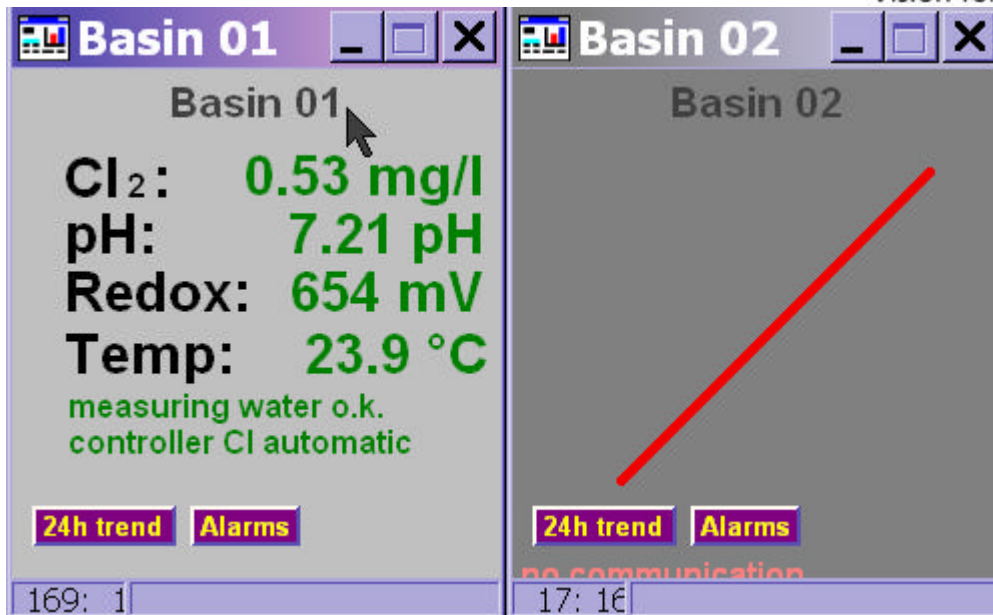
Automatic recognition of the Aquaserver configuration

AQUAVISION2 recognizes the Aquaserver configuration and automatically adapts the display of the images. The following are part of this:

- Cl₂, ClO₂ or Redox
- Measuring ranges
- Redox measurement ON/OFF
- Temperature measurement ON/OFF
- Controller configuration
- Measuring water sensor

Display of the individual basins

One image of each basin is shown, only the images of the active Aquaserver units are updated.



Changing the basin names

The name of the basin can be set to the name *BASIN 01* by a double click. The following window is displayed:



Access (logon of an operator)

The access levels in AQUAVISION2 facilitate the restriction of the access to functions and objects. Each person using AQUAVISION2 can be assigned to an access level between 0 and 9 as well as a password with the help of the password editor. Access level 9 allows the access to all functions and objects of the project.

Each tag can be given an access level. As soon as an operator wants to control a tag, AQUAVISION2 checks, if the user has of the required access level for this tag. If this is not the case, he cannot carry out this control.

In addition, there are system access levels, by which the display or the editing for a function or an object can be restricted in the entire system.

For most of the user-defined objects a display and editor access level can be set. When an object is accessed AQUAVISION2 checks the system access level as well as the object access level. The operator should possess an equal or higher access level, otherwise AQUAVISION2 will refuse the display or the editing.



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The operator must log on in order to be recognized by AQUAVISION2. This can be carried out in the menu *access / logon*.

Standard access levels and operators

The following access levels are used in the AQUAVISION2 project as a standard:

0: everybody	See: system images, trends, messages Edit: no
3: operator	See: system images, trends, messages, archives, data bases, exit AQUAVISION2 Edit: no
5: change parameters	See: system images, trends, messages, archives, data bases, exit AQUAVISION2, <i>project</i> menu Edit: data bases (areas, alarm limit values)
6: administrator	Prerequisite for the configuration of new operators and passwords See: system images, trends, messages, archives, data bases, exit AQUAVISION2, <i>project</i> menu Edit: data bases (areas, alarm limit values)
9: ALLDOS / PLESA	Prerequisite for the use of the menus <i>utility programs</i> and <i>shell</i> See: all Edit: all

The following users are already set as a standard:

Nr.	Name	Access level	Password
1	Operator 1	3	b1
2	Operator 2	3	b2
6	Change parameter 1	5	p1
7	Change parameter 2	5	p2
11	Administrator	6	A1
49	ALLDOS	9	
50	PLESA	9	

For registering a new operator or changing the settings of an existing operator the password editor is used. Each operator needs a valid password, which he should keep secret and change regularly, if necessary.

Change the password

When clicking on the password editor, the list of operators is displayed. The requested operator is selected, AQUAVISION2 asks for his password. If the correct password is entered, the window *edit user*, opens, in which the password can be changed. The other fields (name, title, access level) cannot be edited in this way. This is only possible with an administrator logon (access level 6).

If an operator is registered, certain actions on the computer are filed in the operations log as messages. As an example, every access to protected functions and tags in the operator log is logged together with the operator number and the access time.

Log-off

Log-off is made in the menu item *access*.

A registered user is logged off automatically after 10 minutes without activity.

Display of the Aquaserver configuration

The configuration of the alarm values, controllers and calibration data as well as the log data can only be displayed for one controller at a time. In the bar on top of the image the Aquaserver units with an active communication are displayed.

General configuration

The screenshot shows the 'Configuration' window with a tab labeled '01'. The title bar includes standard window controls. The main area is titled 'configuration alarm values' with a subtitle 'local mode possible'. A 'change configuration' button is located on the left. The configuration is organized into a table with three columns: Chlor, pH, and Redox. The rows include Alarm status, switching directions, alarm values, hystereses, delay times, dosing time monitoring, and Redox dosing stop. A mouse cursor is pointing at the '0.15 mg/l' value for Alarm value 1 under the Chlor column.

	Chlor	pH	Redox
Alarm	OFF	OFF	OFF
Switching direction alarm 1	downward viol.	downward viol.	downward viol.
Switching direction alarm 2	upward viol.	upward viol.	upward viol.
Alarm value 1	0.15 mg/l	6.50 pH	0 mV
Alarm value 2	0.70 mg/l	8.00 pH	1000 mV
Hystereses	0.00	2.00	0
Alarm delay time	0 s	0 s	0 s
dosing time monitoring	OFF 600 min	OFF 600 min	
Redox dosing stop			OFF 900 mV

Controller Calibration

Controller configuration

Controller

01

local mode possible

controller is automatic operation

CI controller automatic

pH controller automatic

Exit controller


Controller




Controller	Type	SD	PID	Setpoint	Hyst	XP	TN	TV	TPB	TMin	Fmax	base load	maxDos	C.outp.	C.manual
C I o	R1+2	3P	^	PI	0.50	100.0 %	10 s		30 s	1.0 s					
P H	R1	PE	v	PI	7.10	100.0 %	300 s		10 s	0.3 s		0 %	100 %	0 %	0 %
	R2	PF	v	PI	7.10	100.0 %	300 s				120 s	0 %	100 %	0 %	0 %
	Cont	V	PID	7.10		100.0 %	300 s	1 s				0 %	100 %	0 %	0 %

CI2 0.53 mg/l

CI2 7.21 pH

Calibration


Calibration

01

Edit calibration

Calibration

local mode possible

Calibration chlorine

cal. measuring value

0.00 mg/l

cal data chlorine

slope

25.00 μ A/pp

pH compensation on

Cal pH

7.00 pH

temp. compensation on

Cal. temp.

25.0 °

Cal. Interval

OFF

1 days

cal. data pH

slope

-58.00 mV/pH

asymmetry potential

0.00 mV

temp. compensation on

Cal. temp.

25.0 °

Cal. Interval

ON

1 days

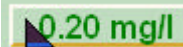

Cal. Log


Calibration log data

Cal data logbook					
01					
Cal data / logbook function					
No.	Date	Time	Slope	Cal pH	Cal Temp
01	00 / 00 / 00	00 : 00 : 00	0.00 µA/mg	0.00 pH	0.0 °C
02	00 / 00 / 00	00 : 00 : 00	0.00 µA/mg	0.00 pH	0.0 °C
03	00 / 00 / 00	00 : 00 : 00	0.00 µA/mg	0.00 pH	0.0 °C
04	00 / 00 / 00	00 : 00 : 00	0.00 µA/mg	0.00 pH	0.0 °C
05	00 / 00 / 00	00 : 00 : 00	0.00 µA/mg	0.00 pH	0.0 °C
06	00 / 00 / 00	00 : 00 : 00	0.00 µA/mg	0.00 pH	0.0 °C
07	00 / 00 / 00	00 : 00 : 00	0.00 µA/mg	0.00 pH	0.0 °C
08	00 / 00 / 00	00 : 00 : 00	0.00 µA/mg	0.00 pH	0.0 °C
09	00 / 00 / 00	00 : 00 : 00	0.00 µA/mg	0.00 pH	0.0 °C
10	00 / 00 / 00	00 : 00 : 00	0.00 µA/mg	0.00 pH	0.0 °C

Changing the Aquaserver configuration

The above mentioned images show a button for the change of the Aquaserver configuration.


Data shown on a button can be set, e.g.  or . Data shown without a button is only for display.

The configuration can be changed, if the unit is not being operated. This is shown on the image as follows: .



Aquaserver has the control priority

If the control is activated from AQUAVISION2, this is displayed at the unit with the text *REMOTE CONTROL ACTIVE*. Now the Aquaserver cannot be operated. The Aquaserver has priority, i.e. the remote control from the Aquaserver can be deactivated. To do this, press the ESC key, until the text *REMOTE CONTROL ACTIVE* is no longer shown.

General configuration

Double-click on the button  to change the Aquaserver configuration. The following buttons are shown:




Now all adjustable values can be changed. The new configuration is only sent to the Aquaserver, if the button  is pressed. If the button  is selected, the former Aquaserver configuration is taken.

Controller configuration


This image shows the configuration of the controllers at the Aquaserver. Only those values are displayed, which are relevant for the respective controller.

The controllers can also be operated from AQUAVISION2. The operation can be carried out as described above. This is only possible, if the local controller is NOT being operated. To do this, the manual control has to be activated.



By 2 further buttons  **controller automatic** the controllers can be changed to manual control starting from Aquaserver2. The feedback concerning the controller mode is displayed at the right hand of the 2 buttons as a text message.

The last column shows the manual value for the respective controller, the feedback of the actual controller configuration is shown in the column C.outp (controller output).


The 3-point step controller without return has an unusual feature. This controller can only be put into the modes OPEN, STOP, or CLOSE . Please observe, that the controller is in a non-defined intermediate position when stopped. If the command OPEN or CLOSE remains, the controller moves into the respective end position.

Calibration

On this image, the configuration of the calibration intervals can be made. Operation can be carried out as described above. This is only possible, if the local controller is NOT being operated.

In addition, the chlorine value calibration can be made with AQUAVISION2. First



is activated, then the new chlorine value is adjusted, then calibration is activated with . The chlorine value is set back to 0 automatically, the results of the calibration are then shown on the image.

The pH-value calibration has to be carried out at the unit.

The historical calibration data can be seen starting from this image. To do this, please select the button



Alarm messages

AQUAVISION2 generally distinguishes between alarm messages and event messages. Starting from these lists further message lists are created, such as the unacknowledged alarms **(red list)** and the current alarms **(yellow list)**.

The message lists can be invoked in the menu *functions / messages*. The message list specific to the Aquaserver is invoked by the button **Alarms** from the respective Aquaserver mimic. This list contains alarms and event messages.

All alarm messages generated in the Aquaserver are reported in AQUAVISION2. In AQUAVISION2 additional messages for the measured values are being generated.

Unacknowledged alarms

This list appears automatically, if a new alarm event arises, which is to be acknowledged; it disappears automatically, if the list is empty.

If a tag has been marked for acknowledgement, then a change of state of the tag will result in a new message.

All tags, which created unacknowledged alarms that have not been acknowledged yet, are contained in the list of the unacknowledged alarms. As soon as the operator acknowledges a message from the list, this message is deleted from the list and appears on the list of acknowledged alarms.

The acknowledgement can be made in the context menu. Several options are possible, which have to be adjusted in the characteristics dialog of the list.

On normal conditions, the list of the unacknowledged alarms should be empty. Unacknowledged alarms are saved when exiting AQUAVISION2 and reloaded when restarting.

In the control panel you'll find a button for opening the list of the unacknowledged alarms. The icon on the button is green, if the list is empty; it is red, if there are unacknowledged alarms in the list.

In the status line of the list of unacknowledged alarms you'll find for the marked message the alarm class and the kind of limit value transgression causing the alarm. To see all details concerning the selected message, select the command additional information in the context menu.

The audio signal for the unacknowledged alarms sounds in regular intervals until all listed messages are acknowledged. The signal can be temporarily suppressed in the context menu.

Current alarms

This list appears automatically, if a new current alarm arises; it disappears automatically, if the list is empty.

Only certain alarm and operating messages appear in the list of the current alarms. A message (alarm or operation) remains in the current alarms list as long as the state, that activated the message, remains unchanged. In the list only information on current states and values appears. As soon as the reported state changes or the corresponding value leaves the critical area, which activated the message, the message disappears from the list – it is no longer valid. If no value is in the alarm state, the list is empty and will disappear automatically.

Configuration of additional limit values

All alarm messages generated in the Aquaserver are reported in AQUAVISION2. In AQUAVISION2 additional messages for the measured values are generated.

The configuration of these limit values serves also for the change of colour of the measured values on the Aquaserver mimic.

These limit values can be modified and the messages can be activated or deactivated individually (see below).

Activating / Deactivating of messages

Using the pH-value as an example to show how the limit values can be modified:

Keep the ALT-key pressed down and mark the pH-value on the Aquaserver mimic with a left-Click. The value is now surrounded by a dotted line **pH: 6.98 pH**. Now make a right mouse click into the dotted area and select the menu item *open database / Asnn:pH*. Select the tab *messages*:

Analog Database : AS01 - as01

Address

AS01

3

Current value

7.07

No alarm

Tag name

pH

Description

measured value pH

Main

Alarms

Archive

☒ Enable alarms

☐ 14.000

☒ 7.500

☒ 6.800

☐ 0.000

☐ 0.100

E

D

D

A

A

D

D

E

alarm comes

alarm goes, warning level

warning comes

warning goes

warning goes

warning comes

alarm goes, warning level

alarm comes

1

7

5

6

6

5

7

1

=

1.0000

%

Here you can see, that the alarm messages are activated, but only the internal alarm values MIN and MAX are active. With *F8-editing*, or *right click - editing* configurations can be modified. In the above configuration only the external limit values MINMIN and MAXMAX have to be acknowledged.



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Archive viewer

The archive viewer ARCHVIEW.EXE is to be found in the directory
C:\INDIGO.

Archives and archive views

Archive configuration

The **AQUAVISION2 archives** are working according to the principle of circular memory, i.e. they collect a predefined number of data sets until they are full, then overwrite the oldest data sets. Therefore the archiving system of AQUAVISION2 comprises backup solutions.

As a standard, the following archives are defined:

STUNDE-HOUR-HEURE.IAR In this archive, the Cl-, Redox-, pH- and temperature values as well as the states *automatic* and *sample water* of all connected units are saved twice a second for one hour.

TAG-DAY-JOUR.IAR In this archive, the Cl-, Redox-, pH- and temperature values as well as the states *automatic* and *sample water* of all connected units are saved once a minute for one day.

MONAT-MONTH-MOIS.IAR In this archive, the Cl-, Redox-, pH- and temperature values as well as the states *automatic* and *sample water* of all connected units are saved every 15 minutes for 30 days.

The archive files are to be found in the project data folder \INDPROJ\AQUAVISION2. (.IAR)

Archive backups

Archive backups are made, if an archive has reached an hour, a day or a month. As a standard, AQUAVISION2 predefines the names last hour, day and month. Unlike the archive files (.IAR) the archive backups in AQUAVISION2 receive the file extension .IAB. In order to give meaningful names to the individual backup files, the date in the DDMMYY format or a serial number is appended to the file name. The archive backups are to be found in the folder

\INDPROJ\ARCHIVE	hour archives numbered 1 to 96
\INDPROJ\ARCHIVE\TAG-DAY-JOUR	day archives with date/time exported Excel file with date/time
\INDPROJ\ARCHIVE\MONAT-MONTH-MOIS	month archive with date/time Excel file with date/time

which is created automatically together with the first backup.

Archive backups should be saved regularly and externally (e.g. on diskettes). For indications concerning the size of archive files please see the respective archive configuration on the parameter page. In order to save space (approx. 60%) it is worthwhile to pack the files with a ZIP program.

In addition to the archives tag-day-jour and monat-month-mois are created as Excel files.

AQUAVISION2 archive views

AQUAVISION2 archive views are created in the **AQUAVISION2 archive viewer** starting from archive files or archive backups.

The following views are available for the Aquavision project as a standard:

- Current day basin nn.IAV
- Current month basin nn.IAV

Current hour basin nn.IAV

For the archive views please see the project data folder

\INDPROJ\AQUAVISION2\ARCHVIEW\ENGLISH.

For these files a link can be created on the desktop in order to have a faster access to the archive views.

The AQUAVISION2 archive viewer

The archive viewer is the AQUAVISION2 tool for the graphic display and viewing of the archived process files. With the archive viewer data from current archive files as well as backups of archive files can be viewed.

The AQUAVISION2 archive viewer is a program independent from AQUAVISION2, this means that you can start it, even if no AQUAVISION2 project is currently running. The archive viewer can be integrated in the operating interface of your project (shell menu), if necessary.

The operation of the archive viewer is made by the menus in the title bar and with the mouse.

A new archive view is created with the command *new archive file* in the menu *file*. First you can select the archive or backup file, the data of which you want to view. Then you enter the required tags in the bottom of the archive viewer. To do this, please click on a field of the tag bar and then use the right mouse button to invoke the context menu.

You have several possibilities to adapt the views to your demands. In the graphics menu you'll find options for the modification of the graphic display: grid lines, staircase display, data markings, line types, colours. Furthermore, there is a number of further options for the adjustment of the graphics. Archive views can be exported and printed. Two archive views can be linked with the *merge* function. If the opened view refers to a current archive file, you can load the already occurred new files with the command *reload view*.

Instructions for the use of the archive viewer

Please try the following **mouse operations**:

- ?? Move the **cross-hair cursor** over the trend, mouse click left on any place; a vertical line will appear in the graphics at the next archiving time. Now observe the coloured tag entries on the bottom of the window: the value of every tag is indicated.
- ?? **Zoom**: drag a rectangle by holding down the left mouse button from top left to bottom right over the trend at a position you want zoom into – the rectangle is zoomed to the entire display surface, where the axes are also correctly scaled. You can repeat this magnification until you have the required detail of the image. By this operation you modify the **visible area**.
- ?? **Returning the magnification** to the original scale: drag an arbitrary rectangle from the bottom right to the top left holding down the left mouse button.
- ?? Holding down the right mouse button, you can pan the **detail** under the axes of the graphics in all directions and modify the visible part of the display. This is also possible, if you zoomed before – the selected scaling remains.
- ?? Move the **scroll bar over the tag bar** holding down the left mouse button. For stepped movements click to the double arrows at the right or the left of it. The area in which the scroll bar moves is a measure for the size of the entire archive file. The scroll bar itself is a measure for the size and the temporary extension of the data sets loaded from the file. New data files have to be loaded with every movement of the scroll bar. This might cause **waiting periods**, especially if the number of the loaded data points is very high.
- ?? Move the **scroll bar under the tag bar** by holding down the left mouse button to see all tags defined for the view.



Vision for **water** technology

?? Open the context menu with the button of a tag. It contains the option **characteristics of the tag**. Here you can change the colour of the display. With the option **hide curve / show curve** you can modify further characteristics of the view.

Trends

Trends are used for the graphic display of current digital or analog tags. An AQUAVISION2 trend comprises three diagrams, which can contain the graphic display of 9 analog or digital tags as a maximum. All three diagrams can display different tags in different periods of time, allowing a view on the process. You can modify the current trends or define new ones (with the help of the object manager). In the context menu of each trend you'll find options to vary the diagrams.

As an example the option *fix axis*: the vertical axis can change automatically with the displayed values (extend, shorten and move). With the characteristics dialog the axis can also be fixed. In this case you can change between the automatic and the fixed axis using this command.

Project backup

In the project manager in the *projects* menu you'll find the *backup* function for saving the Aquavision project. A project backup comprises all files in the project data folder and its sub-folders as well as files belonging to the project located in parallel folders (with the same path as the project data folder). Not included are archive backups or archives converted into other formats (e.g. text, Excel or dbf-files). All other AQUAVISION2 data files are included.

You will find the ZIP file in the BACKUP folder (if you kept the standards). All required files of the project are packed there together with the necessary paths.

Furthermore you'll find in the same folder a text file with the name

Aquavision2 -max nn Aquaserver Date.TXT.

All paths taken into account when creating the ZIP file are saved there as text. To overlook the saved project files even of large data quantities well, make a backup of the text file together with the backup file on another medium.

Help

For every AQUAVISION2 object as well as for the commands, options and displays you'll find context-menu help texts you can invoke with the function key F1. The object for which you need help must be selected.

Independent from this, you can invoke the help subjects by the help menu or use the help button with the menu bar.

Updates

Software update AQUAVISION2 / Indigo

The current software version is 3.4.01.

Software update CANAS

The current software version is 30.

Software update Aquaserver

The current software version is 34_1.

Website for customers' support

This is the address for customers' support

<http://www.plesa.com/indigo/AQUAVISION2/>

The goal is to improve the quality of our customers' support. Here, we put resources at your disposal to help you to solve your problems, to create failure reports and to make suggestions concerning our products and our service.

We'll provide regular updates of the site. If you like to have regular information on this, please send us an e-mail to AQUAVISION2@plesa.com

For more detailed technical support we kindly ask you to consult your supplier or the ALLDOS service department directly.

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E-Mail

Dealing with problems

During the installation various problems might occur. Should you experience such problems, please document these and send them to us by email

Communication with CANAS does not work

Communication AS does not work

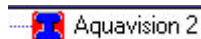
Q&A

? The Indigo menu bar has a yellow background

A: The project was started in the mode *only load projects*. Start the project manager, menu / options / properties / options : deactivate this option:



? The Project manager shows a red symbol



This means that the *remote edit* option has been activated.

Choose *Projects / remote edit / end remote edit*.

In this mode your Archive viewer will not find the current archives.