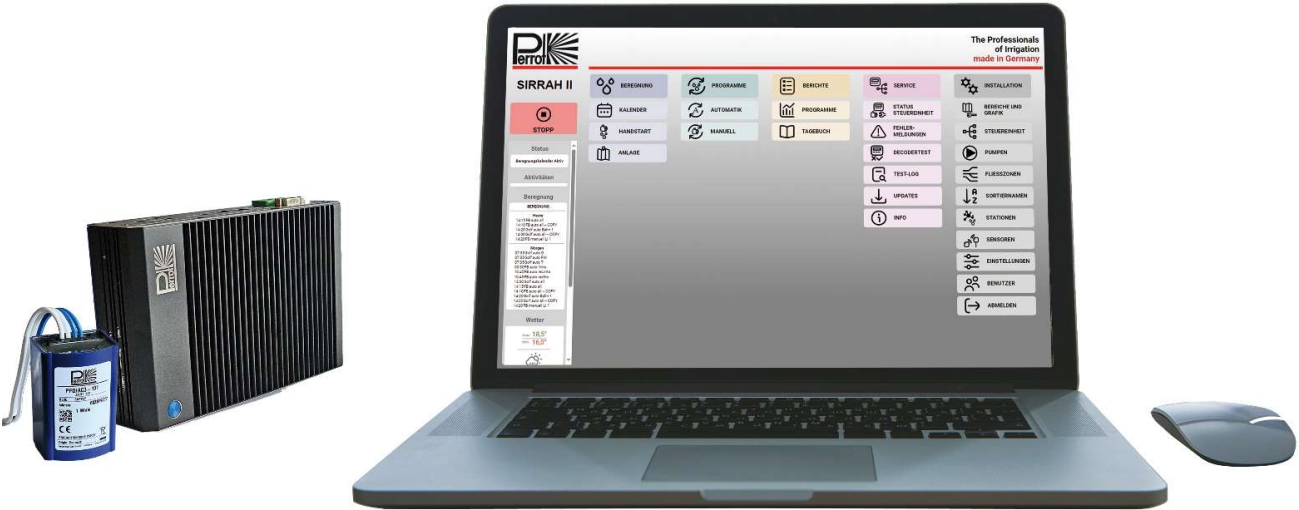


Quick reference

Manual

SIRRAH II



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1 Sirrah / Sirrah II

Changes, modifications, innovations, optimizations

1.1 Improvements

- Software completely redeveloped with state-of-the-art architecture
- Linux operating system instead of Windows (no annoying auto-updates)
- Parallel operation with the old VCU and the previous decoders and the new VCU II decoder interface and new decoders possible
- Operation of up to 40 sensor decoders with any sensors
- Very low current consumption, as the minimum holding current required for each solenoid coil is determined automatically
- Status feedback from the decoders or solenoid coils (temperature, leakage current, inductance, resistance)
- Control of several VCU II, remotely via the Internet possible
- Automatic pump calculation and control in automatic and manual mode.

1.2 Hardware: New decoder control and new decoder types

- VCU II decoder controller: new 2-way decoder communication
- The new bridge PC is a powerful industrial mini computer equipped with 2 serial interfaces and 2 separate network cards.
- The new decoders are available with one, two, four or six outputs for controlling one 24V AC coil each. Each decoder has a 9-digit address from the factory, which cannot be changed. There is no need to program the new decoder.
- The sensor decoders can be parameterized to any input signal (digital, pulse, frequency, 4-20mA, 0-10V, ...)
- Lightning protection decoders can or should be connected to the decoder cable every 100-150m to discharge induced over voltages via an earthing spike. Decoders with more than one coil output have built-in lightning protection with 2 additional green/yellow wires that can be connected to an earthing spike or a valve.

2 Introduction

2.1 Introduction

With the new Perrot Sirrah II irrigation controller, you have a state-of-the-art, modular system at your disposal that leaves nothing to be desired in the automatic monitoring and control of all essential functions for irrigation systems.

→ For safety reasons, this irrigation controller must not be used by children under the age of 16 or by people who are not familiar with these operating instructions.

2.2 Basic information about this quick guide

This manual provides a brief overview of the essential points for parameterizing and operating an irrigation system with the Sirrah II control unit.

If you have any questions about programming or specific functions, please do not hesitate to contact your specialist dealer or our technical customer service. This is how you can reach us:

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3 DESIGN, FUNCTION DECODER SYSTEM

3.1 Structure and function of the different configurations of a sprinkler system

Function groups:

Control / Logic:	Bridge PC with Sirrah II software Valve control units (VCU, VCU II) Web address for PC for operation via graphical user interface
Actuators:	Decoder + coils + water valve Sprinkler
Sensor:	Sensors for e.g. rain, wind, pressure, flow... Connection to VCU or sensor decoder

3.2 Controller / logic

All data entered, signals via sensors and management data are processed logically and actions are generated from them. The SIRRAH II bridge PC transmits commands via the valve control unit (VCU / VCU II) and data lines to the decoder of the pump or valve. The new PFD/AC3 decoders provide feedback to the controller as to whether the solenoid coil of the valve has been switched on correctly within the previously taught-in parameters.

3.3 Actuators

The decoders are used to control sprinklers individually or in groups via water valves and the associated pumps

3.4 Sensors

Pressure and flow sensors check the effectiveness of the commands issued by the control unit and error messages can be used to immediately search for the cause of the error. Scheduled irrigation can be stopped in the event of rain or strong winds.

4 INSTALLATION VCU with decoder PD5/AC and VCU II with decoder PFD/AC3

4.1 Installing the VCU and P

See Sirrah manual

4.2 Installing the VCU II and PFD/AC3 decoder

4.2.1 Installing the hardware and power supply of the VCU II

- Install the control box with the VCU II in a suitable place on the wall.
- Connect the existing decoder cable to terminal A1, B1 directly to the VCU II.
- If several decoder cables (up to 2) are installed, use terminals A2, B2

4.2.2 Power connection and earthing of the VCU II

While the control box itself is grounded via the mains plug, the VCU II must be grounded separately to the grounding terminal provided for this purpose:

- For earthing using the earthing strap, see the Sirrah manual

- The LAN cable for the network/Internet is plugged into the -XF1 slot provided at the bottom left of the control unit.
- The mains plug of the control unit is plugged into a socket outlet, which should have integrated overvoltage protection.
- If you are still using the older Perrot decoder system, connect the VCU to the serial COM1 interface -XF10 at the bottom of the control box.

4.2.3 Extension, operation with several VCU II

Up to 500 stations can be controlled with the VCU II. If there is a need to control more stations or if systems are geographically separated from each other, up to 4 Sirrah II control units (VCU II) can be connected to each other via the LAN network:

a) Grounding

If the Sirrah II control units are mounted directly next to each other, the earthing can be looped through from one control unit to the other.

If the distance is too great, a separate earthing system must be set up for each Sirrah II control unit.

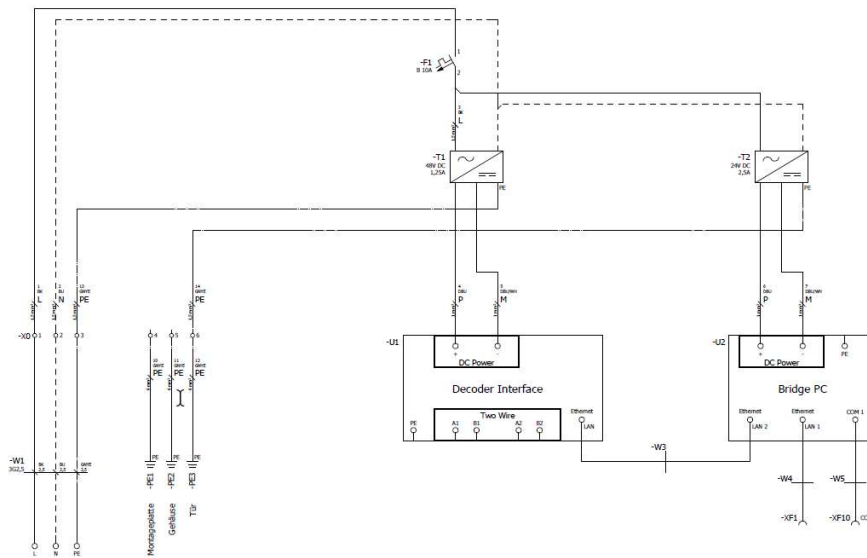
b) Communication

Communication takes place via the LAN network, i.e. the router. If necessary, the connection can also be made via the Internet using a VPN tunnel. This allows individual decoder systems to be operated decentrally from a centrally located Sirrah II Bridge PC. In this case, the Ethernet IP addresses must be coordinated with Regnerbau Calw.

- ✓ Connect the VCU to the serial interface COM 1 of the SIRRAH II Bridge PC, connect the router to the left port (LAN 1) with a LAN cable and plug the round plug of the power supply into the right socket. As soon as the PC is supplied with power, it starts automatically, i.e. it does not need to be switched on using the blue pushbutton.



4.2.4 Wiring and connection diagram for Sirrah II control unit / VCU II



- X0/1 Power supply 230V ac phase L1
- X0/2 Power supply 230V ac neutral conductor N
- X0/3 Power supply 230V ac Earth Pe

- U1/A1 Connection decoder line 1
- U1/B1 Connection decoder line 1
- U1/A2 Connection decoder line 2
- U1/B2 Connection decoder line 2
- U1/PE Earth connection

-XF1 LAN connection from router (network)

-XF10 COM connection Perrot VCU

4.2.5 Wiring PFD/AC3 decoder

Several Sirrah II control boxes can be connected to each other via LAN over an internal network (connection to the same router) or via the Internet.

- A maximum of 500 decoders may be connected per VCU II.
- Each VCU II has its own decoder cable system and must NOT be connected to another VCU II via the decoder cable.

Wiring decoders to control a coil

The decoders are connected to the decoder earth cable with the blue wires. The coils and valves are connected to the white wires of the decoder. It is not necessary to pay attention to the polarity. Operation with 2 coils on a single decoder PFD/AC3-101 (ZH91101) in parallel or in series is NOT permitted. The multiple decoders PFD/AC3-201 (ZH91201), PFD/AC3-401 (ZH91401), PFD/AC3-601 (ZH91601) are available for this purpose

5 Setting up the sprinkler system

See Chapter 5 of the Sirrah II manual

6 Perrot SIRRAH II

Perrot SIRRAH II is a WEB-based irrigation software that can be operated via any browser. The corresponding link is provided upon purchase.

Perrot SIRRAH II can be operated from any computer via the Internet if the access path is stored accordingly.

6.1 Starting the application program

Open the link provided at the time of purchase in your browser.

The default user name with administrator rights is:


- ✓ Username: perrot
- ✓ Password: perrot

As all Bridge PCs are delivered with this user, both the user name and the password should be changed.

6.2 Main menu

The main menu is divided into different menu categories, as well as a status display and the “main switch” to activate the irrigation calendar (active/inactive).  

The basis is always the main menu, from which you can navigate directly to the various menus.

When you are on a menu, you can always switch directly back to the main menu using  the button (top right)



Overview main menu:

- Left column: Status
 - Switching the irrigation calendar on and off
 - Current status of the system
 - Current activities, active sprinklers with time information
 - Preview of the next activities
 - Current weather data
- Irrigation
 - Calendar:
 - Manual start
 - System
 - →As soon as all data and programs have been entered, the actual control of the system takes place in this group. Automatically via the calendar, via manual start or via the graphical display
- Programs
 - Automatic
 - Manual
 - →There are two ways to create irrigation programs: automatically or manually
- Reports
 - Programs
 - Diary
 - The reports record the irrigation quantity and all activities of the system.
- Service
 - Control unit status
 - Field messages
 - Decoder test
 - VCU LOG
 - Control unit maintenance

- Info
- →Service: the status of the system can be analyzed in the event of problems
- Installation
 - All system data for the installed system are entered here

6.3 Menu category INSTALLATION

6.3.1 AREA and GRAPHICS

-  Click on “New course”
Assign a name for the area
-  Click on „Save“
Select and load a graphic

A graphic itself cannot be deleted. Only if the area is deleted is the graphic also deleted. However, the graphic can be replaced at any time by selecting a new one.

The graphic file should be created in such a way that the image is not too unsharp at high zoom, but on the other hand the file size should be kept rather small (<1MB).

6.3.2 CONTROL UNIT

The control unit (valve control unit, VCU, VCU II for short) forwards the commands from the SIRRAH II bridge PC to the connected decoders, which in turn control the connected solenoid valve. It also receives data from the connected sensors and decoders. It is the interface between the SIRRAH II Bridge PC, actuators and sensors.

A system can consist of up to 8 control units (VCU's) and or 4 VCU II

- Define new control unit.
- Select VCU type.
- Assign a number for the control unit.
- Enter the IP address for the VCU II. For the first one, this is 169.254.200.2. For further VCU II control units, the IP numbers must be defined individually.
- Assign a name for the control unit.
- Save

If a system is operated with both the previous VCU and the new VCU II, the previous master VCU must have the number 1. If there are other VCU slave control units, these should be numbered 2, 3 etc. and then the numbers for VCU II control units.


6.3.3 PUMP

Even if the pump is controlled automatically via the pressure, the information is required for the calculation of the optimized irrigation sequence later on.

The pump systems must first be defined before the actual pumps with their technical data and control are entered.

6.3.3.1 Pump systems





Each irrigation system consists of at least one pump system and one pump.

- A new pump system is created with 
- Lead time: Time to build up pressure in the hydraulic system so that the sprinklers rise reliably.

- Run-on time: To prevent pumps from being switched on or off too often, it is advisable to use a run-on time that can be determined during operation.
- Interval time: staggered switching on of the pumps so as not to overload the electrical network
- Values are system-specific and should be set so that, among other things, no pressure surges occur.
- Valve delay: Hydraulic valves may require a longer time before they actually close after the solenoid coil is switched off. The delay specifies when the next valve may be switched on

6.3.3.2 Pumps

At least one pump must be assigned to each pump system.

- Create new pump 
- Simulated: Check this box  if the pump is NOT switched via a decoder. In this case, no decoder is controlled by the system. A pseudo decoder number must still be entered.
- Select control unit
- Specify decoder number
- Designate pump (freely editable name)
- Enter the flow rate (according to the technical specifications of the pump)
- Save
 -  Set pump active/
 -  Set passive

Depending on the selected control unit, either the decoder address of the old decoders 1-255 or the nine-digit address of a new decoder is entered.


The decoder addresses of the new PFD/AC3 decoders are 9-digit with the output number /1-6

Example: 12345689/1

6.3.4 FLOW ZONES

When running the irrigation, Perrot SIRRAH II tries to open as many valves as the pump capacity and the water pipe diameter (flow capacity) allow.

Calculate the maximum flow rate, taking into account the pipe dimension and pipe length.

- Name the flow zone L
 - Enter flow rate
 - Click 
 - Create further flow zones L as described above
 - Subordinate or smaller water pipes that branch off from a flow zone L are entered in the same way for flow zone M
 - Input range: 0 - 999 m³/h
- Der Water consumption of a flow zone can never be higher than the capacity of the pump(s).

6.3.5 SORTING NAMES

Each valve/station can be assigned a sort name and lanes as a search and sort criterion. The sort name should be an abbreviation of several valves

Example golf course:

- T for tee
- G for Green
- FW for Fair Way

6.3.6 STATION DATA

In the Stations menu, each valve (decoder type) is assigned to a pump system, a responsible valve control unit, one or more hydraulic flow zones and its decoder number, and a valve name is assigned. The values for the irrigated area and the flow rate are also entered for each valve.

- The decoder address depends on the selected control unit and decoder type.

Control unit	Decoder Typ	Decoder-No.
VCU old	PD5/AC	1-255
VCU II (new)	PFD/AC3	9-digit ²⁾

Previous VCU:

- Use decoder numbers 1-245 to control the valves
- Decoder numbers 246-250 to control the pumps.
- Decoder numbers 251-255 should remain free as a reserve.

If all PFD/AC3 decoders have been installed electrically, the “Discover PFD Decoder” button MUST be pressed. This causes the VCU II to recognize and read in all installed decoders in a system. A table with the recognized decoders appears below the button.

The 3 background colors indicate the following information:

- Red: Decoder recognized that is not recorded in the station data
- Yellow: Not all of the decoder outputs (.../1, .../2, ...) have been recorded in the station data
- Green: Decoder outputs completely recorded in the station data.
- Light blue: Programmed decoder does not exist in the installation

The light blue background color is an indication that either the decoder address was entered incorrectly or that this decoder was not recognized in the installed system. In this case, the installation or the cable connection must be checked.

If a decoder has been replaced or a decoder has been used that has already been installed (recognized), the “Reinitialize PFD decoder” button must be pressed.

6.3.6.1 Rain and Seep / Cycle & Soak

Individual stations can be set for this purpose. The irrigation cycle is entered in the “Rain” column, the pause time in the “Seep” column. If an automatic program is now started, the corresponding stations run with the irrigation times specified in the program. This means that the pause time is added to the watering time, which means that the program may run longer depending on the setting. The actual watering time always corresponds to the time specified in the program / budget.

6.3.7 SENSORS

With the Perrot SIRRAH II software, irrigation can be influenced with the help of sensors, such as a connected rain detector or individually connected sensors for flow, pressure or wind force.

VCU: The maximum number of sensors that can be connected directly to the VCU is predefined

VCU II: Sensors are connected to sensor decoders and PSD/AC3-110 are read in.

The specifications for converting the measured values output by the sensor into the actual physical quantity are the same for the VCU II as for the VCU.

6.3.7.1 Sensors VCU

For connection and definition of the values for scale and offset, see the Sirrah manual.

6.3.7.2 Sensors VCU II

The sensor decoders must be completely parameterized.

Similar to the stations, the addresses of already installed sensor decoders can be read from the system.

First, the sensor is given a designation / name, e.g. rain sensor. The decoder address can be copied from the list (if it is already installed), read from the decoder or read with a barcode reader. In any case, the prefix “/1” must be added as with the station decoders.

The selection window for “Sensor type” is used to specify the type of sensor and output signal to be connected.

If “..., SD sourcing power,...” is selected, the sensor is supplied with power from the sensor decoder. In this case, the sensor output signal must be passive.

If, on the other hand, the sensor outputs the 0-10V or 4-20mA actively, the sensor decoder must be set to “..., external sourcing power,...”.

6.3.7.3 Defining the influence on stations by sensors

For each sensor, you can specify which stations it affects. For example, if multiple soil moisture sensors are installed in a system, you can specify which stations are affected.

First, select the sensor and deactivate it by clicking the green checkmark in the left column so that a red “X” appears. Next, the control unit is selected. All programmed stations are now displayed. If the sensor is to turn off the station when it is active (e.g., during rain), the station is marked with a checkmark. These settings must then be saved.

6.3.8 WEATHERSTATION

SDI-12 decoders are available for the Sirrah II with VCU II. These decoders are capable of reading one or more sensor data (e.g., weather station) via the serial SDI-12 protocol. The parameterization of the SDI-12 decoders is carried out by Regnerbau Calw directly in the VCU II, in accordance with the weather station with SDI-12 connection.

In the WEATHER STATION menu, a weather station is added with “+”. The address of the previously configured and connected SDI-12 decoder is entered, but without the prefix /1. These are read out automatically.

When saving, the parameters stored in the VCU II are read out.

As with the VCU II sensors, the sensor measurements are assigned to a scale and an offset if necessary. In addition, the limit values, the response, and the physical unit (e.g. °C, %, hPa, lux, m/s, etc.) are entered.

Also as with the sensors, the stations that are to be switched off when a limit value is exceeded or not reached are assigned to the individual sensor values.

6.3.9 OPTIONS

Settings for irrigation sequence

If irrigation is interrupted by a sensor, the sensor checks within the time entered here whether irrigation can be resumed.

If the weather station does not enable irrigation again within the time entered here, the program is terminated. It will no longer start automatically.

Standard: 60 min.

Recommended rain detector: MiniClik rain detector

Geocoordinates

The latitude and longitude can be entered for the current weather display in the main menu at the bottom left. These can be determined using <https://www.google.de/maps>, for example


6.3.10 Users

A user with administrator rights can enter a new user with a password in this window.

6.4 Irrigation programs

The Perrot SIRRAH II software can be used to create optimal irrigation programs. These irrigation programs are tested by an internal simulation run. Pump-Flow-Manager calculates the optimum irrigation sequence.

6.4.1 AUTOMATIC Programs

- Select area
- Enter program name
- Click 
- Add valves to the program via the created sorting names
- Select time or density
- Adjust the order, if desired
- Activate or deactivate valves
- If the same time or density is to be entered for several stations, these can be marked at the front, the value entered and confirmed with OK
- Simulate program sequence (bottom right button) and check

6.4.2 MANUAL Programs

With the manual programs, both the pump and each individual sprinkler are set manually with the corresponding irrigation time.

Up to 8 stations can be opened simultaneously per step. Irrigation is carried out step by step. In contrast to the automatic programs, there is no optimization

As with the automatic programs, the manual programs can be simulated, the simulation printed and the manual program sequence itself also printed.

6.5 Menu category IRRIGATION

The irrigation programs created are started automatically at a specified time using the irrigation calendar or executed manually using the manual irrigation start. The individual control of the valves can be carried out in the "Graphics" menu item.

6.5.1 CALENDER

All created programs are listed in the irrigation calendar. The days on which the program is to run can be marked. The start time and budget are also entered. Each program can be activated or deactivated. If the same program is to run several times on the same day, a copy or several copies of the program can be created by clicking on the green plus sign in the right-hand column.

When you click on Simulation, the Flowoptimizer calculates the irrigation sequence for an entire week. The start and stop times of each station per day and pump system are displayed in a separate window, along with a graph showing the utilization of the pump(s). The pump run-up times and valve switch-on delays are also included. This means that a pump with a lead time starts at the time specified in the irrigation calendar. The first station does not start until the pump lead time has elapsed.

The irrigation calendar is started via the green start button at the top left. When it is clicked, the flow optimizer is calculated in the background. After the calculation (5-15 sec) the Start button change from green to red and indicates Stop. The irrigation calendar can only be activated when all valves are closed. If a valve / decoder is still active, it must be closed manually via the SYSTEM graphic or via the status control unit Prio: The Flowoptimizer creates the programs that have the same or similar status..

6.5.2 Manual IRRIGATION

All automatic and manual programs are available in MANUAL IRRIGATION. These can be started, paused and stopped individually with the budget and, if necessary, repeated several times.

Activation in manual start is only possible if all valves are closed.

6.5.3 GRAPHICS

The previously created graphic is displayed in this window. The displays and buttons are shown by clicking on "Graphic control elements". First, the control area appears, which can be used to switch stations that have already been placed on and off. If a station is only open, it closes automatically after the specified opening time has elapsed. Click on the "Edit" button to switch to edit mode. The desired station is selected from the drop-down menu, clicked and dragged to the correct position with the mouse. It is not possible to control the stations here.

6.6 Menu category REPORTS

All irrigation processes are recorded and saved by the Perrot SIRRAH II software. These processes are made available as reports by SIRRAH II.

6.6.1 Reports PROGRAMMES

Display of the amount of water consumed per station for a freely selectable period of time

6.6.2 SIRRAH II DIARY

All command data generated by the Perrot SIRRAH software is listed and saved in the "Diary" menu.

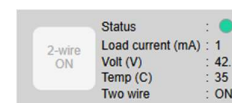
6.7 Menu category SUPPORT

The functions in the Service menu category are used when commissioning a system and to record the status of the system during operation.

6.7.1 Control unit STATUS

The "Control unit status" window offers several options:

- Recording all station statuses ON, OFF at a single view
- Manual operations to switch a station on or off, even when irrigation is running
- Bridge PC connection status to the VCU / VCU II (green / red circle)
- Current, voltages of the VCU
- Programming PD5/AC decoders
- PFD/AC3 decoder: automatic detection of the start and stop voltage
- PFD/AC3 decoder: display of decoder and solenoid coil status, parameters
- PFD/AC3 decoder: Switch the decoder line back on if it was automatically switched off, e.g. due to a short circuit.



6.7.2 ERROR MESSAGES

All error messages are listed and saved in the “Error messages” menu. The error messages are saved until they are confirmed.

6.7.3 DECODERT TEST, PD5/AC Decoder

This test only provides a quantitative statement about the function of the decoder, so it is essential to check the function or defect on site.

When the decoder test is started, the current consumption of the decoder cable is measured after approx. one minute. This value is used as a reference value.

Carrying out a decoder test:

- There are 3 options for selecting the decoders to be tested
 - Click on the “All” button. All decoders are then tested.
 - Click on the “Installed” button. Only the entered decoders (red dot) are marked and tested.
 - Click on the desired decoder numbers.
- Select test time. Open the pull-down menu and select a predefined time.
- The higher the test time, the more accurate the values determined.
- Click on the “Test” button with the mouse to start the test.
- Do not leave the menu during the test.
- The red LED on the VCU flashes during the test run
- The pump decoder is not started during the decoder test, the valves are physically opened. Please take appropriate measures
- (e.g. close the main gate valve) if no water is to flow

6.7.4 TEST-LOG

The current consumption of the individual decoders is displayed in a menu:

- Select the filter (right button bar) so that only “Decoder test” is ticked.
 - If the displayed current value is outside the tolerance limit, the line is marked with an “*”. If the result remains unchanged after 2 further tests, the decoder number is marked with “ERROR”.
- ➔ Der Tolerance range for the current consumption of a decoder is set from 10 mA to 50 mA

6.7.5 Maintenance control unit

This menu item can be used to update the control unit (VCU)

- Select software version
- Select control unit
- The control unit must be set to passive in the “Control unit” menu!
- Start update
- Display: Progress of the update

If firmware updates are available for the new VCU II, they will be transmitted by Regnerbau Calw via remote maintenance.

Info:

The Sirrah II software internally compares the currently valid firmware version of the VCU II. If this does not match, the Sirrah II reports an error. Communication with the VCU II is blocked for safety reasons.

6.7.6 Info

This menu item shows the SIRRAH II version and the address of Regnerbau Calw GmbH.

The buttons take you to the homepage of Regnerbau Calw GmbH.

7 Commissioning the system

Once all station data has been entered (see section 6.2.6 STATIONS), an initial function test of the system can be performed using the SUPPORT-CONTROL UNIT STATUS menu category.

Procedure for PFD/AC3 decoders:

For PFD/AC3 type decoders, the “autoswitch” must first be set for each decoder output/magnetic coil. To be on the safe side, the pump should be deactivated for this.

With the help of “autoswitch,” the control system determines the minimum required switch-on and holding voltage of the magnetic coil for each decoder output. The “autoswitch” must be performed for each individual decoder output. After activating autoswitch, the decoder output is briefly activated several times. The parameters for this output are then read out and displayed. If either the decoder or the coil is not connected or is not properly connected electrically, an error is displayed immediately. Performing the “autoswitch” and reading the parameters takes approx. 10-15 seconds per output. If the “autoswitch” is not performed, malfunctions will occur later during irrigation. If corrosion occurs at the cable connections, resulting in increased contact resistance, it may be necessary to perform the autoswitch again.

Replacement of decoders or solenoid valves:

The auto-switch must also be performed after replacing decoders or solenoid valves.



If the “Auto switch” action is not performed, error messages such as the following may occur during operation:

OPEN_DECODER - 3000: Decoder error: Coil inductance too high - 677088742/1 - 192.168.178.62

OPEN_DECODER - 3000 : Decoder Fehler: Haltetest fehlgeschlagen, Stößel war im passiven Zustand - 677088740/2 - 192.168.178.62

Once you have ensured that every decoder and every station is working correctly, you can start creating AUTOMATIC or MANUAL programs, if you have not already done so. These can then be tested manually using MANUAL IRRIGATION or automatically using the IRRIGATION CALENDAR.

8 SERVICE: FEHLERMELDUNGEN Decoder-System

For error messages, see detailed description in the manual

9 Operation with mobile device (cell phone, tablet)

The system can also be operated using a smartphone or tablet.

To start the system, enter the same web link and password as on the PC in the Internet browser.

A similar start screen appears as on the PC with the login “User name” and “Password”.

In addition, a selection field appears in which Sirrah II can be started either as a mobile APP or as a desktop application.

Mobile application:

The system can only be operated with the mobile application. Changes to the irrigation cannot be made.

- The system can be switched on, off or paused via the CALENDAR
- Individual stations can be switched on and off via the MANUAL CONTROL.
- A preselection for the stations is made using the “Sort name” input box. An opening time can be entered in the “Opening time” field. After the time has elapsed, the station closes automatically.
- Depending on the areas (if more than one area has been defined), manual and automatic programs with a specified budget can be started and stopped using the MANUAL START button.
- ERROR MESSAGES can be called up and confirmed (acknowledged) individually or as a whole.

Desktop application

Compared to the mobile application, the calendar and the “AUTOMATIC” and “MANUAL” programs can be changed / edited when selecting “Desktop”. The graphics are also available in a small window under Attachment.

The “PROGRAMMES” and “DIARY” reports can also be called up.

The mobile version should be selected to switch on the calendar, start programs or switch on individual stations.

Für weitere Informationen stehen wir Ihnen gerne zur Verfügung!
We remain at your full disposal for any further information you may require!

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