POOL TECHNOLOGY CONTROL SYSTEM

VANRIO

--- RC Module (remote control) ---



1. Safety instructions



Read this user manual before installation and unit activation. Should you need any explanation or should you have any doubts, do not hesitate to contact Your VArio supplier.

If you use any personal electronic medical device (peacemaker, etc.), please consult the device manufacturer concerning potential radio interference which may affect the medical device. <u>VArio system modules use radio</u> <u>communication on 869,530 MHz with peak output < 20mW.</u>

The unit shall be always installed by a trained professional. Always disconnect the main power supply before performing repairs or maintenance, or before connecting additional external devices.

The DIN module must always be powered from the safety-protected power source of filtration or recirculation pump.

The system uses radio-frequency communication. It is forbidden to use the device near mines / quarries or any places with possible risk of explosion.

2. General information

Pool control system consists of a VA RIO DIN module, which can control up to 5 output relays (filtering, dosing, lights, heating, attraction), and a local radio remote control unit VA RIO RC (furthermore RC module). The relay outputs are pre-set from the factory as follows:

DIN module

- R1 Filtration (4 programmable timers programs)
- R2 Dosing (operation depends on filtering time 25%/50%/75%/100% of filtering time) / Attraction2 (timer)
- R3 Lights (timer 15 min. step: 0/15/30/45/60/90/120/180/240 min. or permanent ON)
- R4 Heating (heating or cooling based on the pre-set/actual temperature)
- R5 Attraction (timer 15 min. step: 0/15/30/45/60/75/90/105/120 min)

RC module provides information and statuses of relay contacts and outputs and allow the user to modify the parameters. When a dosing station is connected (VA DOS EXACT / VA DOS BASIC / VA DOS FLOC / VA FOR SALT pH), the RC will display actual water quality parameters as measured by the dosing unit and will also allow the user to change the operating parameters of the dosing unit.

3. Technical information

DIN module (VArio)

Dimensions (w – h – d) Material Flammability Class Power supply/consumption Temperature sensor: Output relays: Frequency / Band

RC module (VA RIO RC)

Dimensions (w – h – d) Material Power supply Frequency / Band 106,3 x 57,8 x 90,2 mm ABS nylon 66 UL94V-066 100-250 VAC 50-60 Hz / max. 12W 0 - 50 °C (±0,5 °C) 8 A 250 V (potential-free contact) 869,530 / P, max. output ≤ 20mW







Internal EEPROM memory

The DIN module automatically stores the measured water temperature into internal memory – 3x daily at pre-set times: **10:00 / 16:00 / 22:00**.

Other features and protective functions

<u>Heating priority</u> – system will automatically switch on the filtration pump for 5 mins each hour to check the water temperature. Based on the water temperature settings the filtration pump may be switched on for heating or cooling. *Can be deactivated with a DIP switch.*

<u>Anti-freeze protection</u> – with water temperature below 4°C the system will automatically run the filtration pump every $\frac{1}{2}$ hour in order to keep the water from freezing.

<u>Salinator protection</u> – with water temperature below 14°C the system will automatically deactivate the R2 relay output (Dosing/Atr2) to prevent the salinator from operating in cold water.

4. Electrical connection

DIN module



Pre-set relay outputs



Note:

The relay connection and suppression of their inductive load diagram is in Section 8, page 11..

5. Pairing the DIN and RC modules

To establish a radio communication between Din and RC modules, both units need to be paired. Required for pairing is the DIN module serial number – simply input the last 4 digits into the RC module. The DIN S/N is located on the side label of the DIN module; alternatively, also under the DIN microchip cover.

To access the pairing mode, take the turned-off RC module, press and hold the **"F1"** button and **press the** "Ψ" button for at least 3 seconds. The display will light up and "0000" will be displayed.

0000	
0022	

- a) Using the "V" or Λ" buttons, select the desired number,
- b) Press "<>" to move to the next digit,
- c) Press "SET/SEND" to confirm changes and pair the device. The display will switch to normal screen.



VÁGNER POOL s.r.o.

S/N: DN18M0110022

100-250VAC/50-60Hz

C E

DIN Module

Max. 12W

6. Unit notifications

DIN module

The statuses of the individual relay outputs are indicated by green LEDs (unit active = green LED steady on).

A flashing green LED indicates that the DIN module is under voltage or communicating with the RC. Rapid flashing indicates ongoing communication with a dosing station (connected with a cable).



RC module

Statuses of measured parameters and relay outputs are displayed on a 4-line screen.

Default screen after RC start-up (after pressing the "ON" button). "Connecting" – a connection to the DIN module or dosing station is being initialized.

Filtration		[ZAP]
Dosing		[ZAP]
Temp 22°C		[ZAP]
Lights 014	Atr	015

Status [ON] - relay contact closed / output active
Status [OFF] - relay contact closed / output active
Status 22°C - actual water temperature / heating [ON]
Status ??°C - filtration is not active (timer OFF), waiting for filtration ON
Status Lights "014" - relay contact closed / lights ON with 14 mins remaining
Status Atr "015" - relay contact closed /output ON with 15 mins remaining

7. Unit controls and configuration menu

7.1. Unit controls

The DIN module can be controlled by the RC remote module (using a radio frequency signal). An overview of all control buttons including configuration commands is listed below. The F1 / F2 / F3 buttons are pre-programmed for easy access to Lighting / Attraction / Filtration functions.

Quick accord		<u>Control k</u>	outtons:
QUICK ACCESS	MA Non OFT ENT	SET	ENT
F1	F1 Filtrace [ZAP] Davkovac	SEND	ESC
F2	F2 Teplota 33.C LOVER Svetla 000 Aux 000 F3 F3 F3	۸	<>
F3		V	ዑ

F1	- By default Lights (ON/Timer 15-240 min / 000 = VYP)
F2	- By default Attraction (Timer 15-120 min / 000 = OFF)
F3	- By default Filtration (AUTO / CL24 "ON with chlorine shock (24 hours)" / manual ON / OFF
SET/SEND	 Parameter change / Save changes = send to DIN module
ENT/ESC	 Confirm choice / Enter menu / Go back to higher menu
٨	 Move up in menu / Increase parameter / Time set – hours
<>	- Move to next parameter / Heating - cooling mode / Switch to dosing unit / Paging
v	- Activate item / Move down in menu / Decrease parameter / Time set – minutes
	 Sleep mode ON / Wake up / Quick access edit

7.2. Quick-access buttons

Using the F1 / F2 / F3 buttons, you can easily control preset devices. If the default F1 (Lights) / F2 (Attraction) / F3 (Filtration) functions are not up to your choice, the button functions can be reprogrammed and/or renamed.

7.2.1. Changing the quick-access button function

With RC in the sleep mode, press and hold "F2" + press "O" for at least 3 seconds. The display will light up and the actual button configuration will be displayed:

Lights F1 Attraction F2 Filtration F3 Attraction 2	 a) With repeated pressing of the "F1", "F2" or "F3" buttons the new function will be assigned, b) Confirm changes with the "SET/SEND" button, the display will automatically refresh,
LightsF3AttractionF1FiltrationF2Attraction 2	Note: If you assign the same function to two buttons, (e.g. Lights for both F1 and F2 buttons), both buttons will control the same function.

7.2.2. Renaming the quick-access button functions

You can also rename the functions, should you not like the preset names.

Renaming the quick-access functions:

In the sleep mode (display off) press and hold the "F3" + press "U" for at least 3 seconds. The display will light up and current configuration will be displayed, e.g.:

>Lights Attraction Attraction 2	a) b) c) d) e)
>Shower	f)
Massage	g)
Attraction	h)

- Activate the renaming function by pressing the "ENT/ESC",
- Select desired letter using the "V" or " Λ " buttons,
- Move to next position with "<>",
- Use "F1" to switch between UPPERCASE/lowercase,
- Insert space with the "F2",
- Select desired digit by repeated pressing of "F3",
- Press "SET/SEND" to confirm and save changes, the display will automatically refresh,
- Press "ENT/ESC" to skip (changes will not be saved).

7.3. DIN Module configuration (DIP switch)

Operating functions of the DIN module (heating priority, flow switch, dosing stations / chlorinators) can be configured with a DIP switch.



- 1 Flow switch – default OFF
- 2-3 Dosing station <> saltwater chlorinator 4
- Heating priority default ON

ATTENTION – with DIP switch 4 (heating priority) OFF, the antifreeze protection and cell protection with water temperatures under 14 °C will be deactivated! Temperature readings at 10, 14 and 20:00 hours will remain active.

7.4. Controlling the DIN module with RC module

5 outputs can be activated in the configuration menu: *Filter pump* with up to 4 programmable daily cycles and 2 user regimes, *Dosing* (*Salinator*) based on filtration time, *Heating / Cooling* function with regard to preset water temperature, *Lights* and *Attraction* (e.g. counterflow) with timer.

- 1. Press the "O" button to wake the RC from the sleeping mode.
- 2. Press the "V" button to enter the configuration menu:

Atraction2 >Filtration Filtration-mode Lights Heating/Cooling	 a) Press "V" to move down in the menu, b) Press "Λ" to move up in the menu, c) The ">" arrow indicates the selected parameter,
Atr	 d) Press the "ENT/ESC" key to enter to selected parameter menu.
>Time/Date	Flashing rectangle on the display indicates ongoing
Language	information transfer between the DIN and RC modules – wait
Lights-setting	for the communication to finish in order to change the
Dosing	parameter setting.

3. The "Filtration" menu allows the user to set up to 4 running cycles within 24 hours:

1			a)	1
	07:00	10:00	b)	F
	12:00	15:00	c)	F
	16.00	19.00	d)	F
	21:00	22.00	d)	F
	21.00	23.00	e)	F
			f)	ł

- In main menu, select ">Filtration" and press "ENT/ESC" button,
- b) Press "SET/SEND" button to activate the timer set mode,
-) Press "V" to adjust minutes (1 click = +5 min),
- Press " Λ " to adjust hours (1 click = +1 hour),
 - Press "<>" to move to the next timer,
- Press "SET/SEND" to confirm and send changes to DIN module,
- A "Sending..." message will be displayed.

Note:

The first cycle starting time (in this case 07:00) also determines the starting time for salinator/dosing unit in automatic operation mode. When setting the intervals, the first time must be lower than the second; also, you cannot pass midnight within the same interval (e.g. 09:30-06:00). System will not accept such invalid intervals.

4. The "Filtration-mode" menu allows the user to select the operating mode of filtration:

c)

g)

i)

Filtration	[AUTO]
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- a) Select ">Filtration-mode" and confirm with "ENT/ESC",
- b) Press "V" to scroll through modes (AUTO/ZAP/XXCL/VYP),
 - Press " Λ " to select mode,
 - Press "SET/SEND" to confirm and send changes to DIN module,
- h) A "**Sending...**" message will be displayed.

5. The "Lights" and "Atr/Atr 2" menus allow the user to set operating timers for these outputs with a 15 min. step (0-120 for Atr, 0-240/ON for Lights):

Lights 015min	Attraction 030mi
Lights 045min	Attraction 060mi
Lights 075min	Attraction 090mi
Lights 120min	Attraction 000mi

a) Select ">Lights" and press "ENT/ESC" button,

b) Press "SET/SEND" button to start to set timer,

- c) Press "V" to decrease operation time (1 click = -15 min),
- d) Press " Λ " to increase operation time (1 click = +15 min),
- e) Press "SET/SEND" to confirm and send changes to DIN module,

f) A "Sending..." message will be displayed.

Note:

The quick-access F1 button (Lights by default) also allows permanent ON ((000 - ON - 015 - 030 ... 240 min).

g)

i)

6. The "Heating/Cooling" menu allows the user to set the heating / cooling and water temp.:

Heating	29°C	
Cooling	27°C	
Filtration		[ZAP]
Dosing		[ZAP]
Temperatu	ire25°C	[-08]
Lights		014
Atr		015

In main menu, select ">Temperature" and press "ENT/ESC"	1
button,	

- h) Press "SET/SEND" button to start to set temperature,
 - Press "V" to decrease temperature (1 click = -1°C),
- j) Press "Λ" to increase temperature (1 click = +1°C),
- k) Press "<>" to select operation heating or cooling mode,
- I) Press "SET/SEND" to confirm and send changes to DIN module,
- m) A "Sending..." message will be displayed.

Note:

<u>Preset output delay</u> – in this case 8 mins remain to heating power ON (preset delay 10) and <u>allowed operating temperature</u> <u>range</u> are preset in the system. These technology-protecting parameters can be modified only by authorized person. **The heating priority function can be configured with DIP Switch 4**. With heating priority deactivated, heating/cooling may be active only when the filtration is running. Also, the operating protections will not be active. Heating is OFF by default (temp setting), while heating priority default value is ON (page 5).

7. The "Time/Date" menu allows the user to set system time and date – important for proper filtration and dosing/salinator functioning:

Time 14:10 Day 27 Month 07 Year 18	 n) Select ">Time/Date" and press "ENT/ESC" button, o) Press "SET/SEND" button to set time and date, p) Press "V" to adjust minutes (1 click = +5 min), q) Press "Λ" to adjust hours (1 click = +1 hour), r) Press "<>" to move to next parameter (d/m/y), s) Press "V" and "A" to adjust the selected parameter
Verification code 0 0 0 0 Wrong code	 b) Press "SET/SEND" to confirm and send changes to DIN module, u) As a safety precaution, a "Verification code" must be entered. v) A "Sending" message will be displayed; in case wrong code is entered the "Wrong code" message will appear.

Note:

Default verification code is 1234. Only an authorized person may change the verification code. When a wrong code is entered, changes will not be sent to the DIN module and the unit will return to original settings.

8. The "Language" menu allows the user to select the language:

a)

Czech		

- Select ">Language" and confirm with "ENT/ESC",
- b) Press "V" to select language (CZ/EN/HR/FR/DE/ES),
- c) Press "Λ" to select language,
- d) Press "SET/SEND" to confirm and send changes to DIN module,
- e) A "Sending..." message will be displayed

9. The "Lights-settings" menu allows the user to choose a lights mode:

	f)	Select ">Lights-settings" and confirm with "ENT/ESC",
Select program		Press " V " to set mode (Scene/Bright/Next/etc.),
		Press " A " to choose mode,
Seene 01	i)	Press "<>" to adjust value (e.g Scene – 02/Bright – 50),
Scene UI	j)	Press "SET/SEND" to confirm and send changes to DIN module,
	k)	A " Sending " message will be displayed.

10. The "Dosing" menu allows the user to set the working time of a salt water chlorinator with regard to total filtration time:

Filtration	660min	w) x)	In main menu, select "> Dosing " and press " ENT/ESC " button, Press " SET/SEND " button to activate the setting mode and set
Dosing 100% [660r Time left 470m	100% [660min]) y)	Pres "V" to decrease the dosing time (1 click = -25%), Press " Λ " to increase the dosing time (1 click = +25%).
	470min aa)	Press "SET/SEND" to confirm and send changes to DIN module,	
		bb)	A " Sending " message will be displayed.

Note:

The salinator/dosing unit operation time is directly based on the total filtration time as set in the "AUTO" mode. With filtration running in any other mode (manual ON/XXCL) this "extra" filtrating time is not calculated in total filtration time used for dosing.

7.5. Controlling the VA DOS dosing Station with RC module

In order to review or modify the pool water parameters and review the operating status of a dosing station on your RC module, follow these steps:

The dosing station must be connected with DIN module by a communication 1. cable. The instructions below refer to dosing unit VA DOS EXACT (2 "ON" / 3 "ON"),



2. The dosing unit must have the RS485 (ON/Active) communication activated. The setup for

DIN Module configuration:

Under the DIN module front cover (black) a label shows the required positions of DIP switches for the connected device = dosing unit (VA DOS EXACT):



correct communication must be the following:





Dosing unit configuration:

VA DOS EXACT – ID: 1, Parity: NO, Speed: 2400, DOA=OFF, VA DOS BASIC – ID: 2, Parity: NO, Speed: 2400, DOA=OFF,

- 3. Press the "O" button to wake the RC module from sleeping mode,
- 4. In the default RC screen, press the "<>" button to switch to the dosing unit screen (view could be changed <u>only if the dosing unit is connected by the communication cable to DIN</u> for more details about connection go to section 3 of this manual). <u>If there is no dosing unit connected to the DIN module, the dosing station screen will not appear !!!</u>



Note:

5. You may configure certain operating parameters of a connected dosing station form your RC module. The logic of the dosing unit menu is the same as of DIN module. Press the "V" button to enter the dosing station main configuration menu:



- Press "**V**" button to move down in the menu,
- b) Press " Λ " button to move up in the menu,
- c) The ">" arrow indicates the selected parameter,

d) Press the "ENT/ESC" key to enter the selected parameter menu. Flashing orange rectangle on the display indicates ongoing information transfer between the DIN/RC modules and the dosing unit – wait for the communication to finish in order to change the parameter setting.

The dosing station screen also displays the dosing unit operation statuses: "**Operation OK**" / or alarms "**OFA alarm**" / "**OFA stop**". The alarms cannot be deactivated from the RC – they must be reset directly on the dosing station by pressing the "ENTER/CAL" button.

6. The "Setpoint PH" menu allows the user to change pH settings of the dosing unit:

Setpoint PH	a) Select ">Setpoint PH" and press "ENT/ESC" button,
	b) Press "SET/SEND" to activate pH setting mode,
> 70	c) Press "V" to decrease pH value (1 click = -0,1 pH),
> 7.0	d) Press " Λ " to increase pH value (1 click = +0,1 pH),
	e) Press "SET/SEND" to confirm and send changes to DIN module,
	f) An " OK " message will appear at the bottom right of the display.

7. Menu "AlrBand pH" allows the user to modify the value range for the pH alarm:

AlrBand PH	a)	Select ">AlrBand" and press "ENT/ESC" button,
	b)	Press "SET/SEND" to start modify alarm range,
2.5	c)	Press "V" to decrease alarm range (1 click = -0,1 pH)
> 2.5	d)	Press " Λ " to increase alarm range (1 click = +0,1 pH)
	e)	Press "SET/SEND" to confirm and send changes to DIN module,
	f)	An " OK " message will appear at the bottom right of the display.

Note:

Other parameters such as **Redox (ORP)** and **free chlorine (CL)** can be adjusted the same way. To cancel unwanted parameter changes, press "ENT/ESC".

8. The "TotalFlow" screen allows the user to see the total volume of filtered water. The "ResetFlow" screen shows the volume of filtered water within a resettable time interval:

TotalFlow	ResetFlow	a) Select ">TotalFlow " and press
0.000m3	0.000m3 Read only	 b) "Read only" = the parameter is only for information and cannot be modified.

9. The "Active alarms" menu allows the user to see active alarms on the dosing unit (OFA stop / OFA alarm / AlrBand.

Alarms can be deactivated only on the dosing unit using the "ENTER/CAL" button.

Active alarms OFA alarms AlrBand	Active alarms OFA alarms AlrBand Read only	a) b)	Select ">Active alarms" and press "ENT/ESC" button, "Read only" = parameter is only for viewing.
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10. The "Language" menu allows the user to change the dosing station and also the DIN module menu language. When you change the menu language of the dosing unit using the RC module, the DIN module will automatically switch to the same language as selected on the dosing station (available languages: <u>CZ/DE/EN/ESP/FR/HR</u>).

guage	g) a)	Select ">Language" and press "ENT/ESC" button, Press "SET/SEND" to start language selection,
Czech	b) c)	Press " \mathbf{V} " button to move down in the language list (e.g. English), Press " \mathbf{A} " button to move up in the list (e.g. Espanol)
	d)	Press " SET/SEND " to confirm and send changes to DIN module,
	e)	An " OK " message will appear on the display.

Note:

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If the dosing unit is connected to the DIN module, the menu language can only be changed in the dosing unit screen (step 4 above). The language settings in the RC main menu will be shown as "Read only" and cannot be modified. **Menu language** can also be changed on the dosing station; in that case please restart the RC after the change to load the selected language.

7.6. Controlling the VA SALT SMART chlorinator with RC module

In order to review or modify the pool water parameters and review the operating status of a saltwater chlorinator on your RC module, follow these steps:

 Chlorinator must be connected to the DIN module with a communication cable. The following steps refer to the VA SALT SMART chlorinator (2 "ON" / 3 "OFF"),

Illustrative image

DIN module configuration:

Under the DIN module front cover (black) a label shows the required positions of DIP switches for the connected device = VA SALT SMART.



- 2. Press the "O" button to wake the RC module from sleeping mode,
- 3. In the default RC screen, press the "<>" button to switch to the chlorinator screen (view could be changed <u>only if the chlorinator unit is connected by the communication cable to DIN</u> for more details about connection go to section 3 of this manual). <u>If there is no chlorinator unit connected to the DIN module, the chlorinator screen will not appear!!!</u>

Filtration	[ON]	"<>"	PH=7.1	[≤7.2]
Dosing	[ON]		RX=610mV	[≥700]
Temp 22°C	[ON]		Power	25%
Lights 014	Atr 015		Mode	Automat.

Note:

The saltwater chlorinator unit can signalize the **operating mode** and also **alarms/notifications**. In case of an alarm, the alarm can be reset only on the chlorinator unit – not via VArio – by pressing the "**OK**" button.

4. You may configure certain operating parameters of a connected chlorinator form your RC module. The logic of the chlorinator menu is the same as that of DIN module. Press the "V" button to enter the chlorinator unit main configuration menu:

Setpoint pH >Setpoint RX Max. power (%)	vn in the menu, n the menu,
Cell voltage (V)	elected parameter,
Salinity >Warnings Alarms Operation mode	Press the "ENT/ESC" key to enter the selected parameter menu. Flashing orange rectangle on the display indicates ongoing information transfer between the DIN/RC modules and the dosing unit – wait for the communication to finish in order to change the parameter setting.

5. The "Setpoint PH" menu allows the user to change pH settings of the chlorinator unit:

1		1
	Setpoint pH	a)
		b)
	> 70	c)
	> 1.2	d)
		e)

- Select ">Setpoint PH" and press "ENT/ESC" button,
- Press **"SET/SEND**" to activate pH setting mode,
- Press "V" to decrease pH value (1 click = -0.1 pH),
-) Press "Λ" to increase pH value (1 click = +0,1 pH),
- e) Press "SET/SEND" to confirm and send changes to DIN module,
- f) An " \mathbf{OK} " message will appear at the bottom right of the display.

Note:

You may adjust the value of the RX parameter exactly the same way. Cancel any unwanted changes by pressing the "ENT/ESC" button. The default code for parameter changes is "1234". The code may be changed only by a pool professional with a service module. When a wrong code is entered, changes will not be saved and the unit will return to its default screen.

 The "Max. power" menu allows the user to limit the maximum output of the salinator cell (0-100%):

a)	Select ">Max. power" and confirm with "ENT/ESC",
b)	Press "SET/SEND" to activate value adjustment,
c)	Press " V " to lower power (-1 % / 1x click),
d)	Press " A " to increase power (+1 % / 1x click),
e)	Press "SET/SEND" to confirm and send changes to DIN module,
f)	An " OK " message will appear at the bottom right of the display.

7. The "Cell voltage" menu displays the actual potential on the salinator cell:

Cell voltage (V) 3,5 V Read only

Max. power (%)

80 %

- a) Select ">Cell-potential" and confirm with "ENT/ESC",
- b) The parameter is only informative "Read only", it cannot be adjusted.

8. The "Salinity" menu displays the actual salt concentration – only when a salinity sensor is attached:

Salinity	a) Select ">Salinity" and confirm with "ENT/ESC",
4,5 g/l Read only	b) The parameter is only informative - " Read only ", it cannot be adjusted.

Note:

Salt concentration value is displayed directly on the VA SALT SMART chlorinator unit or on the RC module **only when a** salinity sensor is attached to the chlorinator unit. With no salinity sensor attached, an "Error" message will be displayed.

9. The "Warnings" menu shows current active warning notifications:

Warnings Water temp	Warnings	a)	Select ">Active alarms" and confirm with "ENT/ESC",
Salt low	Salt high	b)	The parameter is only informative -
Low pH	read only		" Read only ", it cannot be adjusted.

Note:

Warnings are information about operation status of the saltwater chlorinator unit. They indicate whether the parameters are OK or need adjustment (temperature, salinity, pH, etc.)

10. The "Alarms" menu shows all active alarm notifications. Alarms may be deactivated only directly on the salinator unit by pressing "OK").

Alarms	Alarms	a)	Select ">Alarms" and confirm with "ENT/ESC",
No alarms	No flow Read only	b)	The parameter is only informative - " Read only ", it cannot be adjusted.

Note:

Warnings are information about operation status of the saltwater chlorinator unit. They indicate whether the parameters are OK or need adjustment (e.g. ORP probe check, unit overheating, cell short-circuit, communication with cell, no flow, etc.)

11. The "Operation mode" menu allows the user to change the operation mode of the saltwater chlorinator unit:

Operation m	ode
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- > Automatic
- a) Select ">Operation mode" and confirm with "ENT/ESC",
- b) Press "SET/SEND" to activate value adjustment,
- c) Press "V" to change mode (Automatic/Manual/Semiautomatic),
- d) Press " Λ " to change mode,
- e) Press "SET/SEND" to confirm and send changes to DIN module,
- f) A "Sending" message will appear at the bottom right of the display.

Note:

You may adjust the value of the RX parameter exactly the same way. Cancel any unwanted changes by pressing the "ENT/ESC" button. The default code for parameter changes is "1234". The code may be changed only by a pool professional with a service module. When a wrong code is entered, changes will not be saved and the unit will return to its default screen.

8. Relay connection and suppression of their inductive load



AC control coils diagram:





This is the recommended output connection of the VArio DIN Module for connection of inductive load inside a breaker box (diagram is valid for one output = in this case the "Attraction" contact). Connect the other outputs with inductive load accordingly.

The outputs are designed for general use as potential-free contacts, which provides for a wide range of utilization.

For DC coil switching / inductive load suppressing, we strongly recommend using a parallel diode connection (in closing direction).

Following these rules and recommendations will result in significant lifetime extension of contacts and relays in the DIN module. In addition, the failure rate of electronic systems placed inside the breaker box, which could be caused by disturbances from inductive load switching, will be substantially reduced (e.g. electromotors, the contactor control coil transformers and relays).

10. Accessories – Communication with Dosing Stations / Salinators



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VArio in a complete breaker box:

+ 516130 - CABLE – BREAKER BOX TO DOSING (Connector on breaker box wall -> dosing station)





516131 - CABLE – VARIO INTO OLD BR. BOX (extension DIN module -> breaker box wall)







Separate DIN module + connection directly to a dosing station:



000000000 000000000

+ 516132 - CABLE - SEPARATE DIN TO DOSING (DIN module -> dosing station)

(minus)

(plus)

Yellow "—" Brown "+"



VA DOS – dosing station connector (inside dosing station package)



VA SALT SMART – communication module (+ 516141 – VARIO COMM. MODULE VA SALT SM.)

Connection:





DECLARATION OF CONFORMITY

The company VÁGNER POOL s.r.o. hereby declares, that all below-listed products meet the necessary requirements for placing the product on the market:

Product line:	VArio – Pool Techno	ogy Remote Control System		
Directive:	RED Directive č. 2014/53/EU			
Module:	DIN Module			
Applicable norms:	EN 6230 EN 301 EN 300	58-1: 2014/A11:2017, EN 60730-1: 2016, EN 62479: 2010 489-1 V2.1.1, EN 301 489-3 V2.1.1 220-1 V3.1.1, EN 300 220-2 V3.2.1		
Module:	WiFi Module			
Applicable norms:	EN 6230 EN 301 EN 300	58-1: 2014/A11:2017, EN 62311: 2008 489-1 V2.1.1, EN 301 489-3 V2.1.1, EN 301 489-17 V3.1.1 220-1 V3.1.1, EN 300 220-2 V3.2.1, EN 300 328 V2.1.1		
Module:	RC Module			
Applicable norms:	EN 6230 EN 301 EN 300	58-1: 2014/A11:2017, EN 62479: 2010 489-1 V2.1.1, EN 301 489-3 V2.1.1 220-1 V3.1.1, EN 300 220-2 V3.2.1		
Module:	Servce Module			
Applicable norms:	EN 6230 EN 301 EN 300	58-1: 2014/A11:2017, EN 62479: 2010 489-1 V2.1.1, EN 301 489-3 V2.1.1 220-1 V3.1.1, EN 300 220-2 V3.2.1		

Conformity was checked by Technický skúšobný ústav Piešťany (TSÚ), which – based on test report No. 190500058/1-4 – issued Conformity Certificates to all of the above-listed modules.

Declaration Issue Date: 20. 3. 2019

Producer Stamp and Signature:



PRODUCER: VÁGNER POOL s.r.o. Nad Safinou II 348 252 50 Vestec, Praha západ Česká republika www.vagnerpool.com info@vagnerpool.com +420 244 913 177



Further information and documents to the VArio system can be found at www.variopools.com

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