

## **REMOTE CONTROL VIA WEB** FOR STEIEL INSTRUMENTS

# **RW14**

**TECHNICAL MANUAL** 

CE

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### INTRODUCTION

RW14 is a device that interfaces with the STEIEL measurement instruments; designed both for the needs of control and management of pool water, and for industrial applications.

The configuration, setting and data visualization are performed through special web pages, allowing the user to interface remotely through a simple PC, Tablet or Smartphone equipped with network connection.

Once installed and started, the RW14 periodically polls the connected instruments, records the data, and checks the alarm thresholds.

In addition the user can choose a specific measurement configuration, display the graph of the acquired values or a table of data or generated alarms, change the system configuration parameters or network settings.

The internet connection is available through LAN port or WiFi module (to be specified upon order).

RW14 is equipped with DHCP system (Dynamic Host Configuration Protocol), that allows the automatic acquisition of network addresses and, therefore, a fast installation of the device.

If a specific configuration is required for the IP, gateway and subnet mask addresses, these data must be specified when ordering.

The remote access to the device is done by connecting to the site <u>www.rw14.it</u> and data visualization does not require the installation of special programs, but a common web-browser as for example Google Chrome (recommended) or Internet Explorer (v.11 and later).



#### **TECHNICAL DATA**

Case	shockproof ABS, for wall installation
Dimensions	instrument: 200 x 150 x h80 mm
	fixing template: 144 x 98 mm
Installation	wall-mounting, through 4 fixing holes
Protection Rate	IP56
Power Supply	100240V~ ; 50/60Hz ; 6VA
Buffer Battery	for internal data logging, CR2032, at least 4-year life
Internet Connection	LAN port or WiFi module (specify upon order)
Serial Input	1 standard RS232 input, compatible with:
-	<ul> <li>Industrial instruments, series S507 / S508</li> </ul>
	<ul> <li>Colorimetric units, series MCO07 / MCO14</li> </ul>
	<ul> <li>Multi-parametric units, series EF207 / EF214 / MC14</li> </ul>
	Compact systems, series EF260 / EF270 / EF300
	<ul> <li>Dosing pumps, series EF160 and PROXIMA PSP</li> </ul>
	<ul> <li>Dissolving units, series Pool-Chem Flex</li> </ul>
Optional Inputs	<ul> <li>up to 3 additional serial modules, with RS232 input</li> </ul>
	1 analogic module with two 4-20 mA inputs
	1 digital module with 4 inputs
Cable Length	Ethernet cable: max. 100 m (Cat. 5 high quality)
-	Serial cable: max 10 m unshielded, max 15 m with shield connected to GND
	at one side only (side RW14), max 25 m shielded and located far from power
	cable
	<u>Analogic cable</u> : max 100 m with shield connected to the negative at one side only (side RW14)

**Note:** RW14 is equipped with DHCP system (Dynamic Host Configuration Protocol), that allows the automatic acquisition of network addresses and, therefore, a fast installation of the device. If a specific configuration is required for the IP, gateway and subnet mask addresses, these data must be specified when ordering.

### INSTALLATION AND ELECTRICAL CONNECTIONS

To install the device, choose a position as far as possible from humidity sources and chemical vapors. When opening the casing, please pay attention to the cable that connects the LED to the electronic board: carefully open the cover and then remove the LED connector. Note that the LED connector has a longer side for the polarization and therefore it is possible to reassemble it without exchanging the polarities. The power supply has to be provided to the proper 2-pole removable terminal block, using a bipolar cable with section between 0.5 and 1mm<sup>2</sup>.

Note: Upon request is also available a model with external power supply.

For connections, please refer to the figure here at the right side and to the one on the next page.

For easy wiring, the cable outlets from the casing are laid on precut bulkheads. This way you can insert the cables already assembled with connectors.

The instrument is supplied with 4 sheet-pass for additional wiring.

Note that the casing is milled only in correspondence of the standard bulkheads; to add more holes, imitate the original milling or specify the number of required connections upon order.

If the instrument is installed in a very humid place or in strong fumes, it is recommended to seal the outlet holes for example with silicone.



#### VIEW OF THE ELECTRONIC BOARD

#### Notes:

- 1) The picture may differ from your unit, for various supplies and / or accessories or expansions.
- 2) The Mini-SD slot is empty. A possible Mini-SD is used for:
  - Update the device firmware
  - Change the network settings for Internet connection (DHCP, manual or via WiFi key)
  - Storage hardware: in case of failure of Internet connection, the data of the unit connected will be automatically saved in the Mini-SD memory card
- 3) In the case of RW14 WiFi, the USB socket will be used for connecting the WiFi module.
- 4) Pay attention to the connection of the serial port! If the RX and TX connections are reversed, the communication does not work but the device does not have any problem; instead, exchanging a signal with 0V (GND) can cause the burning of the serial port of the device or any RW14 connected.
- 5) To connect an additional board for serial communication, you have to switch off the instrument and respect the following insertion order of the expansion boards:

CN5 → serial port 2, CN7 → serial port 3, CN9 → serial port 4.

## LED

Once powered the device, after about 20 seconds the LED will light on the front panel indicating one of the following conditions:

- 1) Slow blinking light = the RW14 operates correctly.
- 2) Fast blinking light = the Ethernet connection is missing.
   The Ethernet cable has been disconnected or the network does not work properly; check switch, hub, router, etc.
- Two blinks and one pause = Internet connection error. The connection to the network is correct, but the Internet access does not function; check the status of the DHCP server, the settings of the manual connection to the network (IP, gateway, etc.) or WiFi system (network SSID, password, etc.)
- 4) Three blinks and one pause = communication error with the RW14 server. The device is correctly connected to Internet, but the connection is not confirmed by the RW14 server; if the LED remains in this status, probably there are some firewall restrictions in the network; contact the network operator so that appropriate changes are made (it must be able to access the host "steiel-sede.rw14.it").

#### INTRODUCTION TO THE SYSTEM

The RW14 remote control service can be accessed via web from a PC or portable device, by entering the address <u>http://www.rw14.it</u> in the search bar of your browser.

From here you can view and configure the installed RW14 devices.

Below all the pages of the interface will be explained through screenshots and description of the functions and operations.

#### HOME PAGE

The Home Page shows a picture of the product with a brief description.

This page can be viewed by all users, both guests and logged ones. From the Home Page you can access the rest of the site only after entering the correct user name and password in the Login Form located on the right of the page.

Depending on the user name and password entered, you will have the access to the reading and / or configuration pages of your own RW14 devices.





#### HANDLING OF CUSTOMERS - USERS

You are here: Home Marm Customers Users         DECENTION ASIL         Dere Arm Customers Users         Devices         Devices         Devices         Devices         Devices         Devices         Edit         Or opense         Dist of suers         Name         Email       Password         Type       Edit         Edit       Edit         Edit       Edit         Edit       Edit         Edit       Edit	<complex-block></complex-block>
ADMIN ACCOUNT     Mome     And     Add     Name     Enail   Password   Type   Edit     Edit     Add     Remove	ADMIN ACCOUNT         More Decision         More Decision         Decision         Decision         Marce Decision
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List of users           Name         Surname         Email         Password         Type         Edit           Image: Im	List of users           Name         Surname         Email         Password         Type         Edit           Image: Im
Name     Surname     Email     Password     Type     Edit       Edit     Edit     Edit       Edit     Edit       Edit     Edit	Name     Surname     Email     Password     Type     Edit       Image: Surger State
Add Remove	Add Remove
Add Remove	Add Remove

After entering his username and password (provided by STEIEL), the installer will access the personal area of the web site, and, therefore, the management of his customers and devices.

In this section, the technician can customize his web page, by entering for example a new logo, description and location of his company, or change the text color.

Just click on the "Edit" button related to the only item in the table "List of customers".

Click "Save" to confirm the last changes, or "Cancel" to exit without saving.

Change custor	ner	×
Name:		
Place:		
Description:		
	1	
Style:	blue 🔻	
Upload:	Scegli file Nessun file selezionato	
	Upload	
File:		
	Save Cancel	

Change user	r	×
Name:		
Surname:		
Email:		
Password:		
Type:	Viewer	•
	Save	Cancel
4		E.

Select the only row in the table "List of customers" and the table "List of users" will appear, initially empty.

The installer can generate all the accounts related to his customers, simply clicking on the button "Add" and then "Edit", filling the following fields:

Name : enter the user's name.

\_

Surname : enter the user's surname.

Email : enter a valid e-mail address.

- Password : enter the password chosen by the user for logging to the <u>www.rw14.it</u> web site.

- Type : "Viewer" (allow the real time reading of measurements, the uploading of the measurement and alarm history, and the data export to a spreadsheet) or "Technician" (can perform all operation of the "Viewer" user, and also directly interact with the controller for remotely changing its parameters, set additional inputs for additional units, customize the starting value and full scale value of measurements, change the alarm thresholds, activate and deactivate the controller data reading).

Once pressed the "Save" button, a new account is immediately created, that allows to access the <u>www.rw14.it</u> web site and show only the devices of that user.

#### HANDLING OF USERS - DEVICES

In this section, the technician can assign one or more RW14 devices, previously created.

This allows to choose how many and which devices will be displayed for the "Technicians"/"Viewers" who log in to the site, in order to keep well separated the various installations.

Once selected the only customer in the table "List of customers", automatically will be shown the table "Devices", listing all the RW14 devices purchased by the installer.

Select one of these and automatically will open the table "List of users", i.e. the list of all users created in the previous section (see paragraph "Handling customers - users"). Now you can decide which users should be enabled or disabled for the interaction with the selected RW14 device.

In other words, the installer can decide independently whether and how many devices assign to each single user.

Finally click on the "Submit" button to confirm the desired configuration.

*Note*: The users displayed on gray background are "assigned" to that device, while those on white background are not.

You are here: Home , Admin User Devices         Image: STEIEL	
ELETTRONICA SRL       ADMIN ACCOUNT         Home       Amm Customers Users       Admin User Devices         Devices       Devices list	
ELETTRONICA SRL       Home     Amm Customers     Devices       List of customers     Devices       Name     Place       Name     Place	
List of customers Devices Name Place Name	
Name Place Name	
STELEL Ponte San Nicol \$14_000	
\$15_002	
\$15_071	
s15_081	
\$15_082	
List of users	
Name Surname Email Password Type	
Technician	
Technician	
Viewer	
Contraction (1)	

## **DEVICE LIST**

This is the main page where a logged user can interact with the devices.

The screen is divided into three parts:

- **Table of the devices**: each device visible by the user is listed in the table that shows the device name and the date of the last relevant information sent to the server, and allows to understand the status of the device through the color dot in the first column.

The possible states are as follows:

- $\circ$   $\;$  Red dot: the device is not connected to the server  $\;$
- Green dot: the device is correctly connected to the server and is communicating
- Red or green dot with yellow triangle: a command has been sent to the remote device but has not yet been confirmed by the server

Moreover, you can check how many and which customers have been associated to that device, by pointing the mouse arrow on the "i" symbol related to each device.

- **Table of alarms**: shows the latest alarms sent from the devices. If a line of the table is selected, then the alarms shown are those relating to the selected device.
- Area of instantaneous data: once the device has been selected, on the right part of the page you
  can see small tables corresponding to the active interfaces. Each table will show the interface
  channels with their values. As you can see from the next screenshots, if a not connected device is
  selected, the data will be partially disabled (displayed in light gray).

ou are here: He	me - Devices list								
ou are nere. Ho	ne > Devices list								
ST ST	EIEL		ADM	IIN ACCOUNT					
C ELETT	RONICA SRL								
ome Amm Cu	stomers Users Admir	User Devices	Devices list						
Devices			Interface: Va	asca 01		Interface: Vasca 02			
Name	Date time	Users	S Name	Value	M.U.	Name	Value	M.U.	
s14_00a	14:28:43 12	.02.15	pH	Err	pH	In pH/RX/T/Cl/CO	Err	pH	
s14_00b	15:41:44 06	.07.15	RX	Err	mV	Temp	Err	°C	
\$14_00C	16:46:35 03	.07.15	Temp	Err	°C				
s15_001	10:54:06 18	.12.15	CI lib	Err	ppm				
s15_003	15:06:56 28	.09.15	Clicomb	Err	ppm				
s15_004	15:13:24 28	.09.15 🕕	Cr comb	EII	ppm				
😑 s15_005	09:42:37 16	.09.15 🕕	Interface: Va	asca 03		Interface: Vasca 04			
e s15_006	03:41:40 20	.12.30 🕕	Name	Value	M.U.	Name	Value	M.U.	
s15_007	06:36:57 29	.09.15 🕕	In pH/RX	Err	pH	pH	Err	pH	
s15_008	11:14:43 02	.07.15	Vel	Err	imp/min	RX	Err	mV	
s15_009	10:54:13 18	.12.15				CI CLE12	Err	ppm	
s15_010	12:56:01 02	12.15				CI CP-CL	Err	ppm	
s15_011	09:54:37 18	.06.31				Temp	Err	°C	
s15 013	11:29:23 02	.07.15				CI tot	Err	ppm	
s15_014	15:22:44 17	.09.15				CI COMB	Err	ppm	
e s15_015	09:54:27 18	.12.15 🕕	Interface: DI	_1		Interface: DI_2			
e s15_016	00:37:49 06	.06.31 🕕	Name	Value	M.U.	Name	Value	M.U.	
s15_017	08:18:47 11	.11.15 🚺	Digital input	1		Digital input	0		
s15_018	09:54:59 18	.12.15							
s15_019	12:16:4/ 02	.01.31	Interface: DI	_3		Interface: DI_4			
s15_021	15:34:28 02	.07.15	Name	Value	M.U.	Name	Value	M.U.	
s15_022	14:06:11 02	.07.15 🕕	Digital input	0		Digital input	1		
e15 023	14-45-20.06	07.15	· · · · ·						
s15_090	13:57:45 21	.04.15							
e s15_091	13:44:04 21	.04.15							
e s15_092	13:38:22 21	.04.15 🕕							
s15_093	13:31:56 21	.04.15							
s15_094	13:09:59 21	.04.15							
\$15,095	14:59:25 21	.04.15							
s15_097	12:46:42 21	.04.15							
e s15_098	12:39:53 21	.04.15							
e s15_099	12:31:07 21	.04.15 🕕							
e s15_100	12:21:51 21	.04.15							
s15_101	11:24:43 21	.04.15							
\$15_102	10:34:53 21	.04.15							
- 313_103	10.55.51 21								
Display	Channels	Interfaces							
Default									
Recent alarn	ns								
Name	Date time	Description							
s15_002	10:31:36 18.12.15	Digital Input (HI)							
s15_002	10:31:36 18.12.15	Digital Input (LO)							
s15_002	10:31:36 18.12.15	Digital Input (LO)	-						
s15_002	10:31:36 18.12.15	Digital Input (HI)							
\$15_002 \$15_002	14.09:45 27.11.15	upper alarm excee	d .						
s15_002	11:46:44 27.11.15	Upper alarm excee	d						
s15_002	11:46:44 27.11.15	Upper alarm excee	d						
s15_002	11:08:16 13.11.15	Lower alarm excee	be						
s15_002	11:08:16 13.11.15	Lower alarm excee	ed						
s15_002	14:11:33 05.11.15	Upper alarm excee	d						
s15_002	14:11:33 05.11.15	Upper alarm excee	d						
s15_002	11:45:33 05.11.15	Upper alarm excee	d						
c15 002	11:45:33 05.11.15	upper alarm excee	0						

#### Page for interaction with connected devices

### DATA VISUALIZATION

After selecting a device from the list, the "Show" button is enabled, which allows to open a page to display the data collected by the device.

This action can be performed by any user logged in.

#### Data Visualization - TABLE

Through this page you can access the data acquired by a device, previously recorded by RW14 and sent to the server.

Through the left column you can set some criteria for the data search:

- "Interface": data can be displayed only if an interface is indicated
- "From date": this is the starting date for the data search
- "To date": this is the ending date for the data search
- "Live mode": if this criterion is selected, cyclically a data request is made to the server
- "Search": sends the data request to the server; the table is filled when data are received

A maximum of 10000 rows at a time can be loaded in the table; when this limit is exceeded, a popup message will appear to alert the user that not all data of the requested period can be present. In this case, narrow the search to a shorter period of time or change the sampling time for the acquisition (see "Configuration of interfaces" section).

The values highlighted in red indicate readings that exceeded the higher alarm threshold, while those shown in blue indicate readings below the lower alarm threshold.

RW14							Welcome: steiel
You are here: Home	<ul> <li>Tabella</li> </ul>	Dati					
	IEL	RL					
Home Amm Cust	omers Use	rs Admin. Customer Devices	Devices list				
Name of the selec	ed devic	e: s15_005					
Interface:							
Vasca Grande	v	Table Diagram	Alarms				
From date		Date and time (utc)	Date and time (local)	рН	RX	Temp	*
20/07/2015	THE OWNER OF THE OWNER	08:54:36 29.07.15	10:54:36 29.07.15	7.00	0	27.6	
29/07/2013	12.65	08:52:36 29.07.15	10:52:36 29.07.15	7.00	0	27.6	
To date:		08:50:36 29.07.15	10:50:36 29.07.15	7.00	0	27.5	
29/07/2015		08:48:36 29.07.15	10:48:36 29.07.15	7.00	0	27.5	
Live mode		08:46:36 29.07.15	10:46:36 29.07.15	7.00	0	27.5	
		08:44:36 29.07.15	10:44:36 29.07.15	7.00	0	27.3	
Search		08:42:36 29.07.15	10:42:36 29.07.15	7.00	0	27.4	
		08:40:36 29.07.15	10:40:36 29.07.15	7.00	0	27.3	
		08:38:36 29.07.15	10:38:36 29.07.15	7.00	0	27.3	
		08:36:36 29.07.15	10:36:36 29.07.15	7.00	0	27.3	
		08:34:36 29.07.15	10:34:36 29.07.15	7.00	0	27.3	
		08:32:36 29.07.15	10:32:36 29.07.15	null	0	27.4	
		08:30:36 29.07.15	10:30:36 29.07.15	7.00	0	27.3	
		08:26:36 29:07:15	10.28:30 29.07.15	7.00	0	27.3	
		08-24-36 29.07.15	10.24.36 29.07.15	7.00	0	27.1	
		08:22:36 29 07 15	10:22:36 29 07 15	7.00	0	27.1	
		08:20:36 29.07.15	10:20:36 29.07.15	7.00	0	27.1	
		08:18:36 29.07.15	10:18:36 29.07.15	7.00	0	27.2	
				7.00		27.2	

Using the "Export" button you can export the table content to a file.csv.

#### Data Visualization - DIAGRAM

As for the table, even the data shown in the diagram can be filtered by criteria available on the left side of the page.

As the table shows all the data sampled by the device (30 sec.), the diagram shows only the data sampled at the frequency set in the interface configuration page.

In this case the limit for the points that can be used in the graph is 600.

From the graph legend you can clear a track (which will be hidden) and using the bottom bar you can change the ends of the abscissas axis and get a zoom over the.

The graph scales are defined in the channel configuration page.



#### Data Visualization - ALARMS

Similarly to the other two types of data, the alarms are requested to the server by applying the filter criteria specified on the left side of the page.

Alarms are displayed in a table that specifies the channel name, interface, device date and time, and a short description.

RW14				Welcome: steiel
You are here: Home > Tabella Dati				
			OUNT	
ELETTRONICA SRL	1005	(A		
Home Amm Customers Users Admin. Custo	mer Devices Devices	ilist		
Name of the selected device: s15_003				
Interface: Table	Diagram Alarms			
From date Channel	Interface	Date time	Description	
ot/ot/oots status	DI4	10:41:04 07.04.15	Digital Input (HI)	
status	DI3	10:41:04 07.04.15	Digital Input (LO)	
lo date: status	DI2	10:41:04 07.04.15	Digital Input (LO)	
29/07/2015 status	DI1	10:41:04 07.04.15	Digital Input (HI)	
Live mode				
Conroh				
Search				

#### **CONFIGURATION OF CHANNELS**

As for the interface configuration, this page is available only if a device has been selected from the list and if the user is not a simple viewer type.

This page allows the user to set some parameters for the acquired channels (note: each instrument must have at least one channel) and displays a table for each interface previously selected.

The channel values that can be modified are the following ones:

- Name: this is the name used to display the channel in the interface
- Enabled: indicates if the channel must be involved in the visualization or not
- M.U: is the measure unit
- Threshold (L): is the low threshold; if the sampled value is lower than this threshold, an alarm will be generated
- Threshold (H): is the high threshold; if the sampled value exceeds this threshold, an alarm will be generated
- Decimal: id the number of decimal places to be used for rounding the value
- SS: is the starting value for the graph scale
- FS: is the full scale value for the graph

Note: The SS and FS values determine the Y axis of the measure in the graph; therefore set them appropriately for the type of measure to which they refer.

You are here: Home , Configurazione Canali  STEIEL  ADMIN ACCOUNT	
ELETTRONICA SRL	
Home Amm Customers Users Admin. Customer Devices Devices list	
Name of the selected device: s15, 007	
Interface: Vasca01 (S1)	
Id Name Enabled M.U. Tresh.(L) Tresh.(H) Decimal Ss Fs	
ph_01 pH 📝 pH 6.8 7.8 2 0 14	
rx RX 📝 mV 650 800 0 0 999	
cl_01 Cl CLE12 📝 ppm 0.5 2 2 0 5	
cl_02 CI CP-CL 📝 ppm 0.5 2 2 0 2	
temp Temp 🗹 °C 25 35 1 0 100	
cl_03 Cl tot ppm 0.5 2.5 2 0 5	
cl_04 Cl comb 📝 ppm 0 0.5 2 0 5	

#### **CONFIGURATION OF INTERFACES**

From the device list page, by pressing the "Interface" button you can access to an area dedicated to the configuration of the instruments connected to the device.

This area CANNOT be accessed by a "Viewer" type user.

RW14 is provided with an RS232 serial interface for the connection to the measurement instruments selected from the drop-down menu in the table.

Upon request, more inputs can be added to connect more instruments, up to a maximum of 4 serial ports, 2 analogic inputs, 4 digital inputs.

This page also allows to:

- Change the name of the reference interface (e.g. "Children pool")
- Set the sampling time by which the data will be shown on the graph
- Check the firmware version installed on the device
- Select the time zone to use for the data sampling time

When the "Submit" button is pressed, the page will go back to the device list and the yellow triangle will appear on the device dot. This means that the new configuration has been sent to the device and the triangle will disappear as soon as the setting is confirmed.

Once correctly set the instrument associated to a certain interface (e.g. serial "S1" on "EF300" unit) and after confirming with "Submit", you can access the "Parameters" section, in which a new window will open, that includes the list of parameters for the controller. Through the "GET" button, an automatic request will be sent for displaying the values set in the controller memory. To change the parameters (relay intervention thresholds, timers, hysteresis, etc.), just write the new values and click on the "Ok" button for sending them to the controller.

**Note**: For more details about the parameters meaning, click on the "Manual" button to open the PDF document corresponding to the selected controller. You can also edit the parameter description in the table, for a better understanding.

New york and the second		Welcome: steiel
rou are nere: nome Configurazione Interfacce		
STEIEL ADMIN	I ACCOUNT	
Home Amm Customers Users Admin. Customer Devices Devices list		
Name of the selected device: s15 005		
Sampling time(min) 2 m  v FW Version: 0.1.0-B Time Zone Eur	ope/Rome 💌	
ID Type Name Ins	trument	
S1 serial Vasca Grande EF3	00 Parameters	
S2 serial Vasca 02 OFI	Parameters	
S3 serial Vasca 03 OFI	Parameters	
S4 serial Vasca 04 OFF	Parameters	
DI1 digital_input DI_1 OF	Parameters	
DI2 digital_input DI_2 OF	Parameters	
DI3 digital_input DI_3 OF	Parameters	
DI4 digital_input DI_4 OF	Parameters	
and the second se	Parameters	
All analog_input All OF		
All analog_input All OFF Al2 analog_input Al2 OFF	Parameters	

#### **VERSION WITH SIM CARD**

For special versions provided with router and LAN cable, the user has to insert a **data SIM** (a type M2M – MachineToMachine – is recommended) in the appropriate router slot. Make sure your SIM card is not protected by a PIN code; if necessary, disable it.

Connect the LAN1 port of the router to the LAN port of the RW14 using the supplied LAN cable. For details, refer to the router manual.

#### View of the router connections



The manufacturer can modify the instrument or the technical manual without advanced notice.

#### Warranty

All STEIEL products are warranted for a period of 12 months from the delivery date.

Warranty is not valid if all instructions of installation, maintenance and use, are not strictly followed by the user. Local regulations and applicable standards have also to be followed.