

Serie Idegis PR-300

Idegis PR-300 Series

Vers. 20062014

EN

Instruction Manual

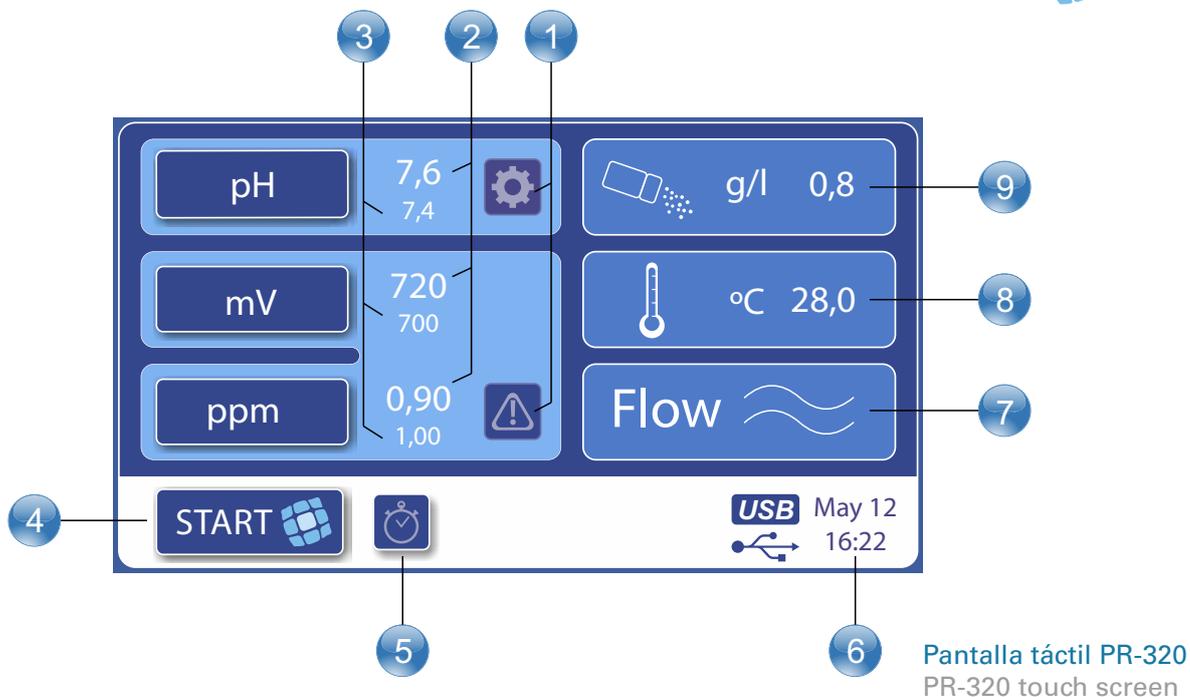


PR-320 pH ORP Cl₂ (ppm)
T(°C) mS/cm



PoolStation®
compatible





PANEL DESCRIPTIVO / PANEL DESCRIPTION

1. Iconos informativos (bomba, nivel, alarmas...).
Informative icons (pump, level, alarms...).

2. Valor de lectura / Water Values:
pH / ORP / Cl2 (ppm)

3. Valor de consigna / Setpoint values:
pH / ORP / Cl2 (ppm)

4. Menú de configuración / información (6 idiomas).
Setup menu / setup information menu (6 languages).

5. Seis temporizadores diarios programable (bombas, foco, riego, ...)
Six pool programmable timers (pumps, light, irrigation, ...)

6. Hora / día / mes / año. Calendario.
Hour / day / month / year. Calendar.

7. Sensor inductivo (flujo).
Inductive sensor (flow).

8. Valor de temperatura (°C/°F).
Temperature value

9. Valor de conductividad (gr/L, mS/cm).
Conductivity value.

Idegis PR-300 Series

Referencia-Reference



PR-300
pH ORP
°C mS/cm

PR-310
pH Cl2 (ppm)
°C mS/cm

PR-320
pH ORP Cl2 (ppm)
°C mS/cm

Smart Control pH / ORP (mV)

Smart Control pH / Cl (ppm)

Smart Control pH / ORP / Cl (ppm)

Serie Idegis PR-300

Series Idegis PR-300



Panel de Control / Control Panel

Modelo / Model

Descripción / Description	PR-300	PR-310	PR-320
Alimentación (ac) - Consumo / Input (ac) - Consumption	230 V 50/60 Hz - 27 W		
Parámetros / Parameters	pH, ORP mS/cm, T(°C)	pH, Cl ₂ (ppm) mS/cm, T(°C)	pH, ORP, Cl ₂ (ppm) mS/cm, T(°C)
Salidas control / Control outputs	pH: rele (NO, 0.5A max) & 4-20mA & pulsos / relay (NO, 0.5A max) & 4-20mA & pulse ORP, Cl ₂ : rele (NO, 0.5A max) & 4-20mA & pulsos / relay (NO, 0.5A max) & 4-20mA & pulse 5 Temporizados / 5 Timers: 5 x (salida rele / relay output (NO, 0.5A max)) Alarm: salida rele / relay output (NO, 0.5A max)		
Entradas control / Control Inputs	6 libres de potencial (nivel liquido: pH / ORP o Cl ₂ (ppm) / +4) 6 free potential (solutions levels: pH / ORP or Cl ₂ (ppm) / +4)		
Rango / Control / Precisión Range / Control / Precision	pH: 0.0 - 9.9 / 7.0-7.8 / 0.1pH ORP: 0 - 999 / 650-850 / 1mV Cl ₂ (ppm): 0.0 - 5.0 / 0.0-3.0 / 0.1 ppm Conduct. mS/cm: 0.0-20.0 / 0.0-20.0 / 0.1 Temp. T(°C): 6-45°C / 6-45° / 0.1°C		
Calibración / Calibration	Automática (fácil calibración mediante menú pantalla táctil) Automatic (easy calibration using touch screen menus)		
Bomba integrada / Integrated pump	No		
Pantalla táctil color / Color Touch Screen	Si / Yes		
Adquisición datos / Data acquisition	pH, ORP, Cl ₂ (ppm), Conductivity, Temperature (14 días/days)		
Puerto USB / USB Port	Exportación de ficheros de registro / USB log files export		
Portasondas retroiluminado / Backlighted sensor holder	Si (azul OK, rojo alarma) / Yes (blue OK, red alarm)		
Mod-Bus & Poolstation	Si / Yes		

Sensores / Sensors

Descripción/Description	PR-300, PR-310, PR-320	PR-310, PR-320
pH: PR-300, PR-310, PR-320	Sonda de pH, H-035 cuerpo epoxy 12x150 mm, rango 0-14 pH, 0-80°C, unión sencilla Ag/AgCl sellada, cable 3 mts., conector BNC, electrolito gelificado, protector de sonda fijo. Disoluciones de calibración (pH 7.0 y 4.0).	H-035, pH electrode, epoxy body 12x150 mm, range 0-14 pH, 0-80°C, sealed union Ag/AgCl, 3 mts., cable with BNC connector, gelified electrolyte, fixed sensor protector. Calibration solutions (pH 7.0 y 4.0).
ORP: PR-300, PR-320	Sonda de ORP, RX-1/RX-2, cuerpo epoxy 12x150 mm, 0-80°C, unión sencilla Ag/AgCl sellada, cable 3 mts., conector BNC, electrolito gelificado, protector de sonda fijo. Disoluciones de calibración (ORP 470 mV).	RX-1/RX-2 ORP electrode, epoxy body 12x150 mm, 0-80°C, sealed union Ag/AgCl, 3 mts., cable with BNC connector, gelified electrolyte, fixed sensor protector. Calibration solutions (ORP 470 mV).
Cl ₂ (ppm): PR-310, PR-320	0-5.0 ppm, 4-20mA. Sensor 3 electrodos potencioestático: cloro libre inorganico & organico. 2-cables de conexión, 0-45C, <1bar, cuerpo PVC. Baja dependencia con el pH, isocianúrico compatible. Compensación automática de temperatura.	0-5.0 ppm, 4-20mA. Potentiostatic 3-electrode-sensor for free inorganic & organic Chlorine, 2-wire connection, 0-45C, <1bar, PVC body. Low pH dependence, isocyanuric compatible. Automatic temperature compensation.
mS/cm - T(°C): PR-300, PR-310, PR-320	Electrodo de conductividad, cuerpo ABS 12x120mm, grafito K=1. NTC 10K, elemento de temperatura en tubo de inoxidable 316. Conexión cable.	Conductivity electrode, ABS body 12x120mm, Grafite, K=1. NTC 10K temperature element in 316 SS tube. Cable tinned leads.

Kit PR-300

Incluido / Included (PR-300 / PR-310/ PR-320)

Toma de muestras, pre-filtro (80 micras), entrada y salida a PR.

Sample valve, pre-filter (80microns), in & out PR.

Dimensiones / Dimensions

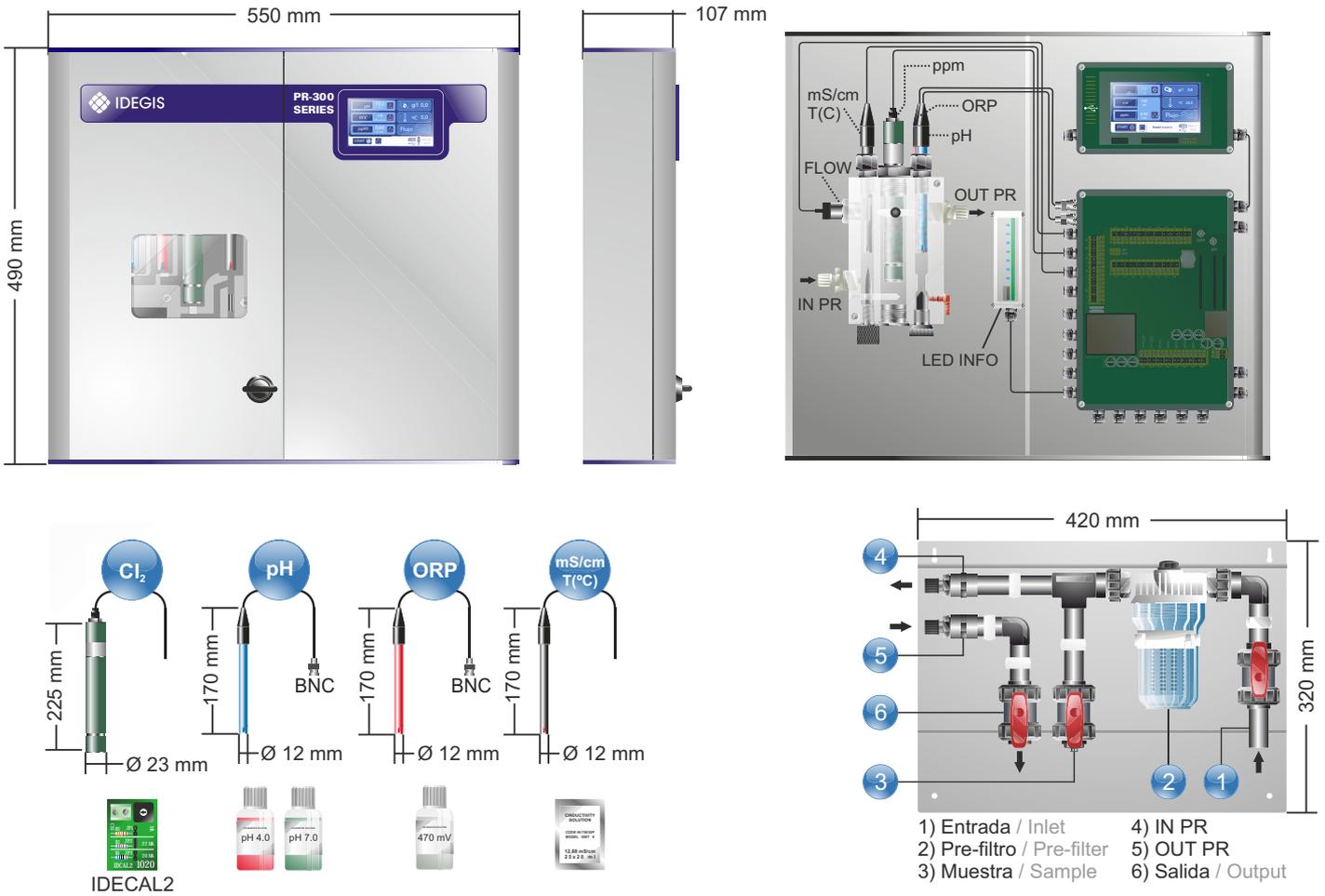
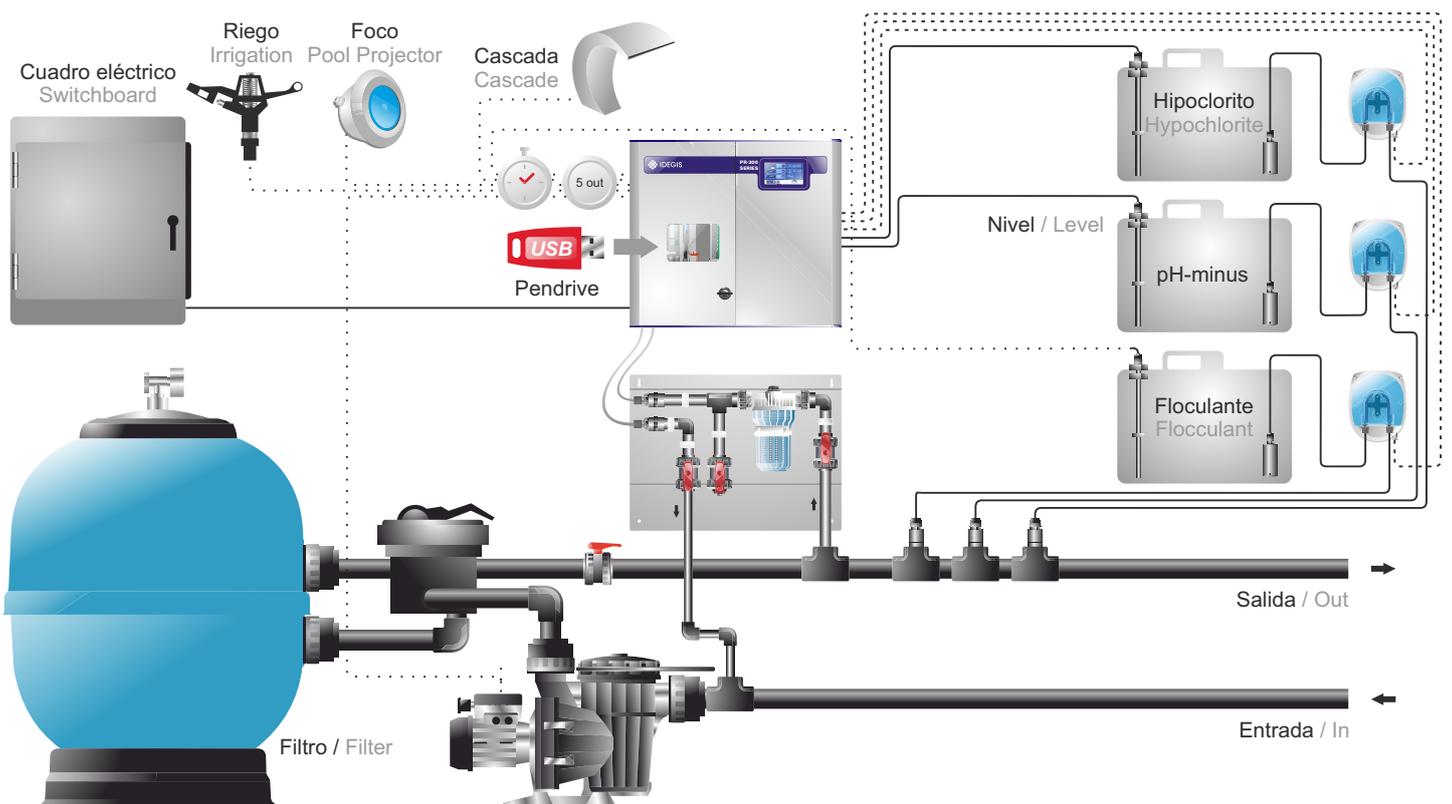
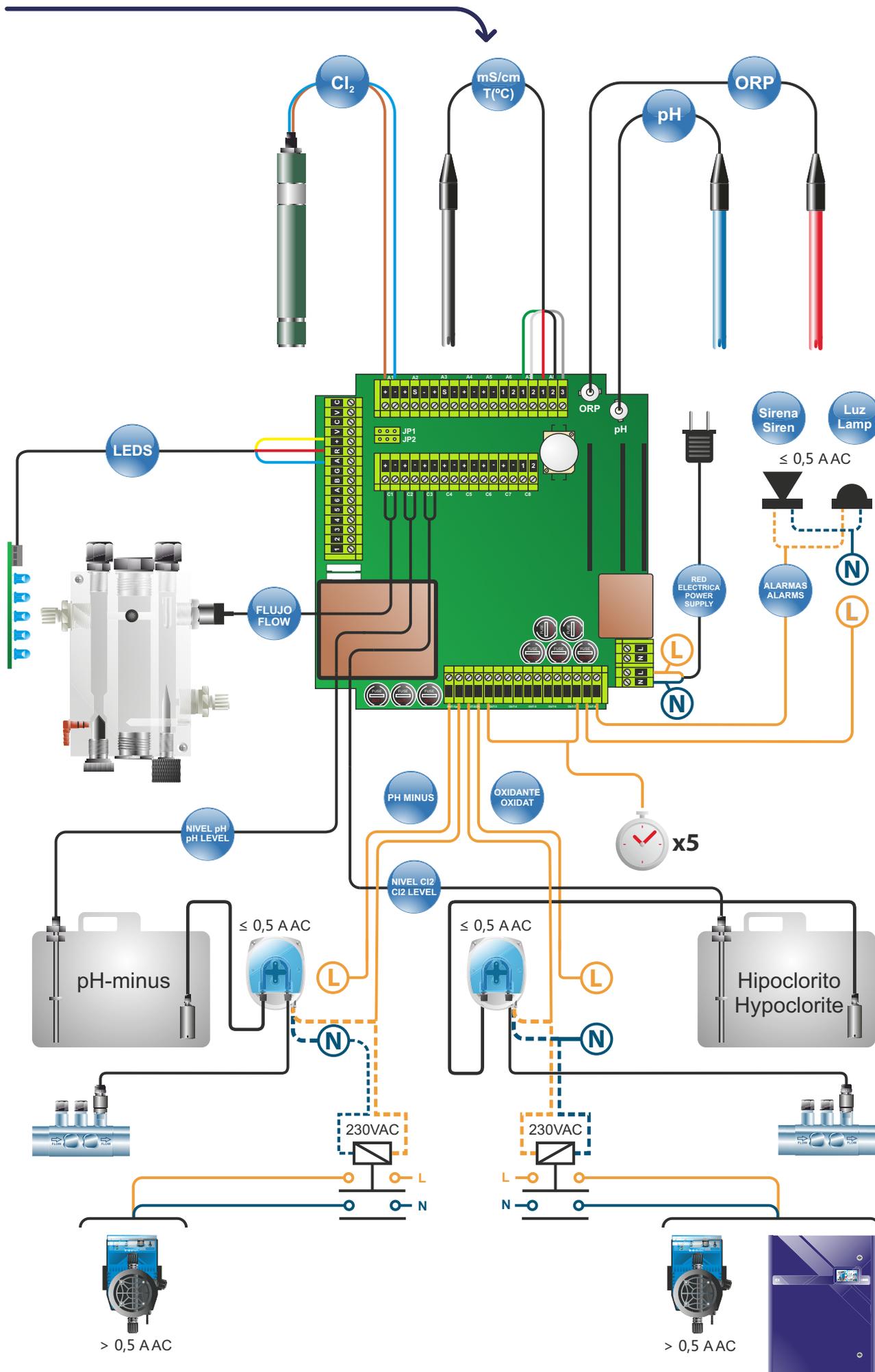


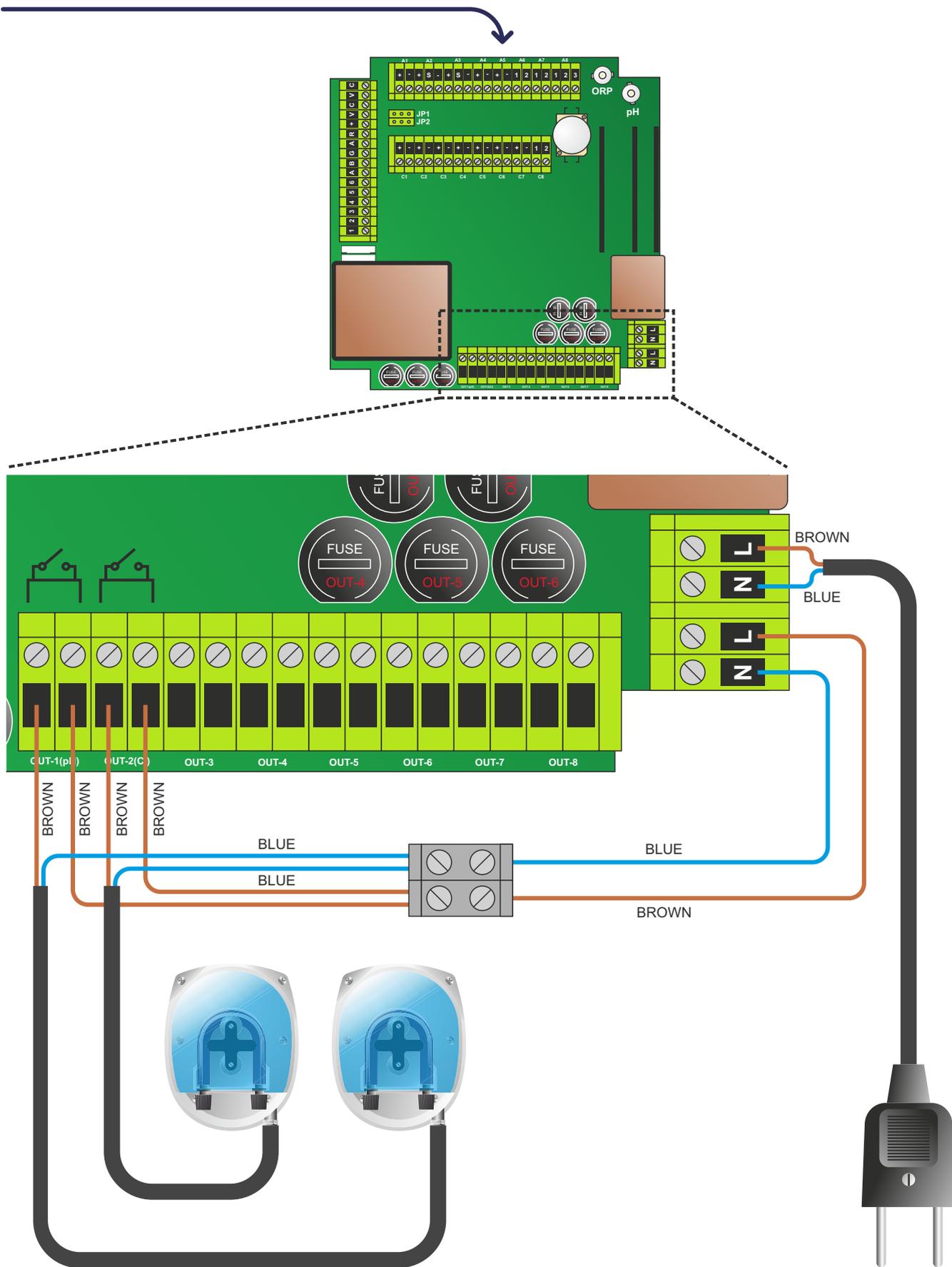
Diagrama de instalación / Installation Diagram



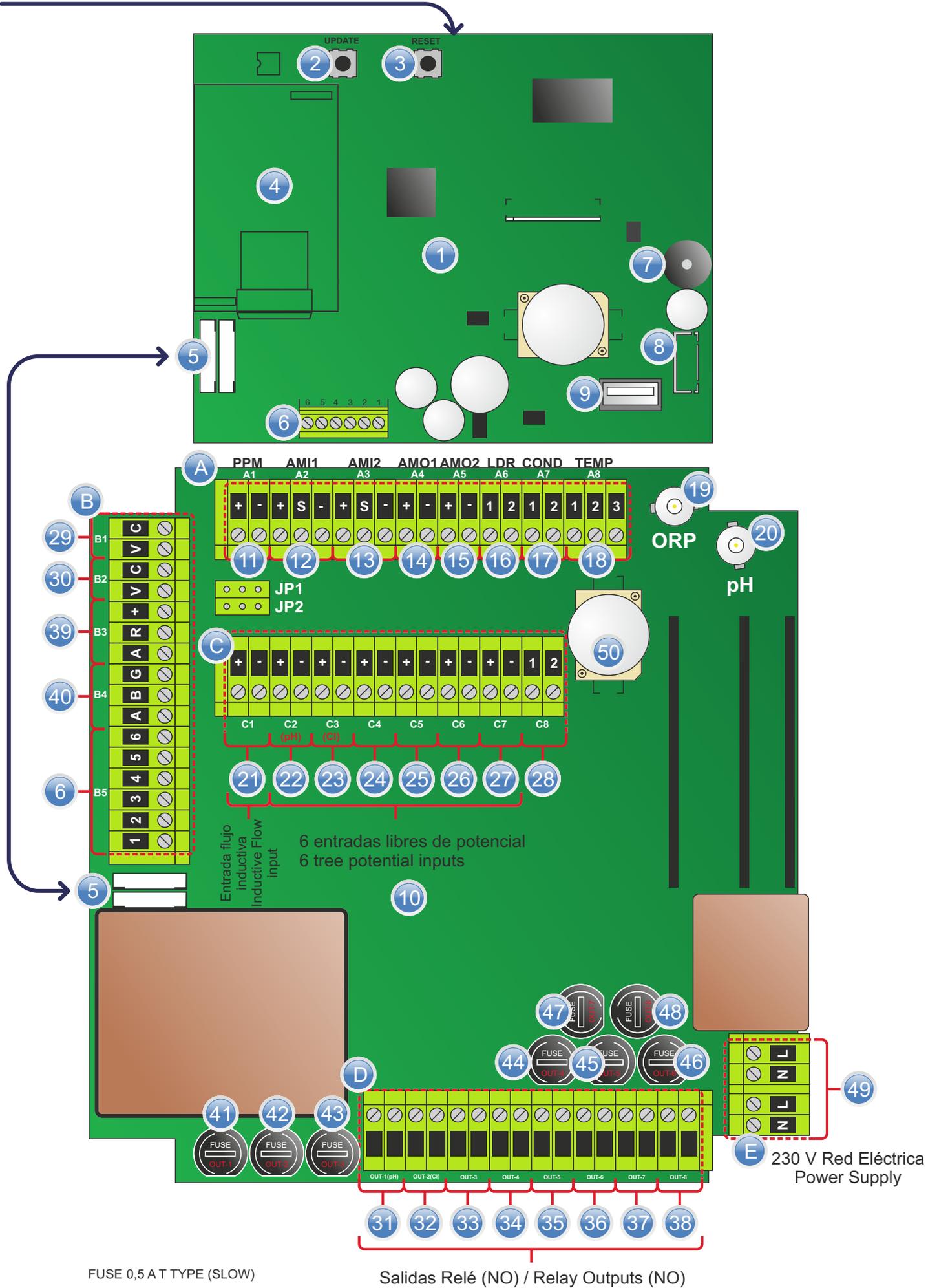
Installation schematic:



Installation detail:



Installation chapter:



- 1 IDTFT board (back).
- 2 Update button. Never touch it. Reserved for factory service procedures.
- 3 Reset button.
- 4 IDINT bay. Optional slot for enable Ethernet communication capabilities.
- 5 IDBUS connector. Used for transmit power and communications between IDTFT and IDPR3 boards.
- 6 Alternate IDBUS connector. 6 wire, terminal version.
- 7 Buzzer.
- 8 Wired USB connector.
- 9 On board Female Type A USB connector.
- 10 IDPR3 board (front).
- 11 PPM, 4-20 mA input. ATTENTION!, terminal is polarized. Input loop is always powered to 24V DC.

12 13

AMI1 & AMI2, 4-20 mA inputs. ATTENTION!, terminals are polarized.
Loop power is optional with [+] or [s].

[+] - 24V DC loop power.

[s] - Not power source. Power must be externally provided.

[-] - Return loop to shunt and ground.

14 15

AMO1 & AMO2, 4-20 mA output. ATTENTION!, terminal is polarized

- 16 CdS Photocell 5.4-12.6 KΩ. No polarized terminals. Connect to [1] and [2] as your preference.
- 17 Conductivity input. No polarized terminals. Connect to [1] and [2] as your preference.
- 18 Temperature input. NTC type sensor. No polarized terminals. Connect to [1] and [2] as your preference. [3] is N/C.
- 19 ORP (mV) BNC connector.
- 20 pH BNC connector.
- 21 Inductive flow sensor input. WARNING!, install only inductive type flow sensors. Not flow switch type.

22 23 24 25 26 27

(C2)(C3)(C4)(C5)(C6)(C7)

22-27: Free potential input. Install switch type level detectors.

22: (C2)Level for pH regulator tank.

23: (C3)Level for Hypochlorite regulator tank.

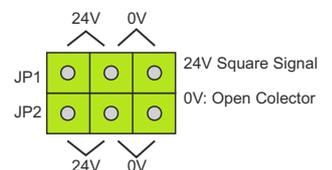
- 28 (C8) Bipolar isolated digital input. +- 5V tolerant. Ultraviolet status lamp.

29 30 (B1)(B2)

TTL impulse outs. 24V DC or open collector output. ATTENTION!, Set (B1)JP1 and (B2)JP2 properly.
Terminals are polarized.

[C] - Connect target ground.

[V] - Connect to target input channel.



31 32 33 34 35 36 37 38

(D1)(D2)(D3)(D4)(D5)(D6)(D7)(D8)

31-38: Fused 230V outputs.

31: pH regulator pump output.

32: Hypochlorite regulator pump output.

33-37: Out-3 to Out-7 programmable timers.

38: Alarm Output.

- 39 Probe holder LED illumination board.

[+] - Yellow

[R] - Red

[A] - Blue

- 40 MODBUS communications port.

[A]- Positive data.

[B]- Negative data.

[G]- Common.

41 42 43 44 45 46 47 48

41-48: Fuse holders for fused 230V outputs.

41 is fuse holder for 31 fused output.

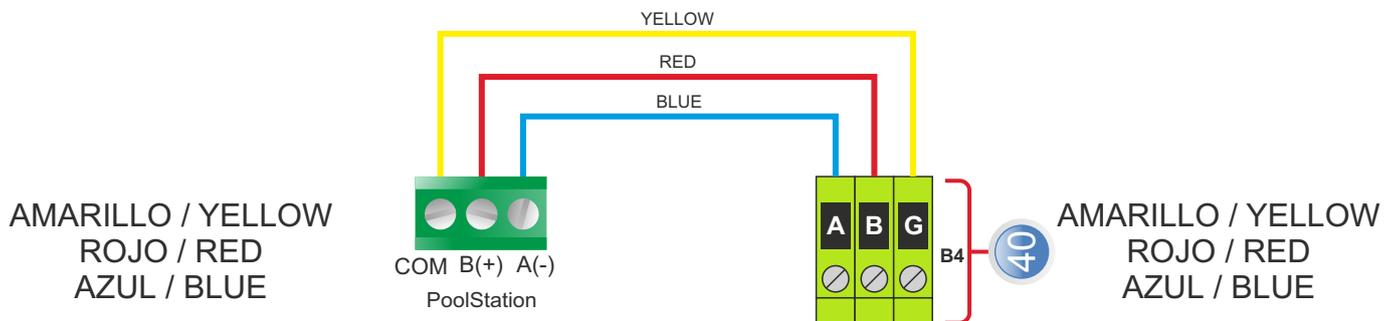
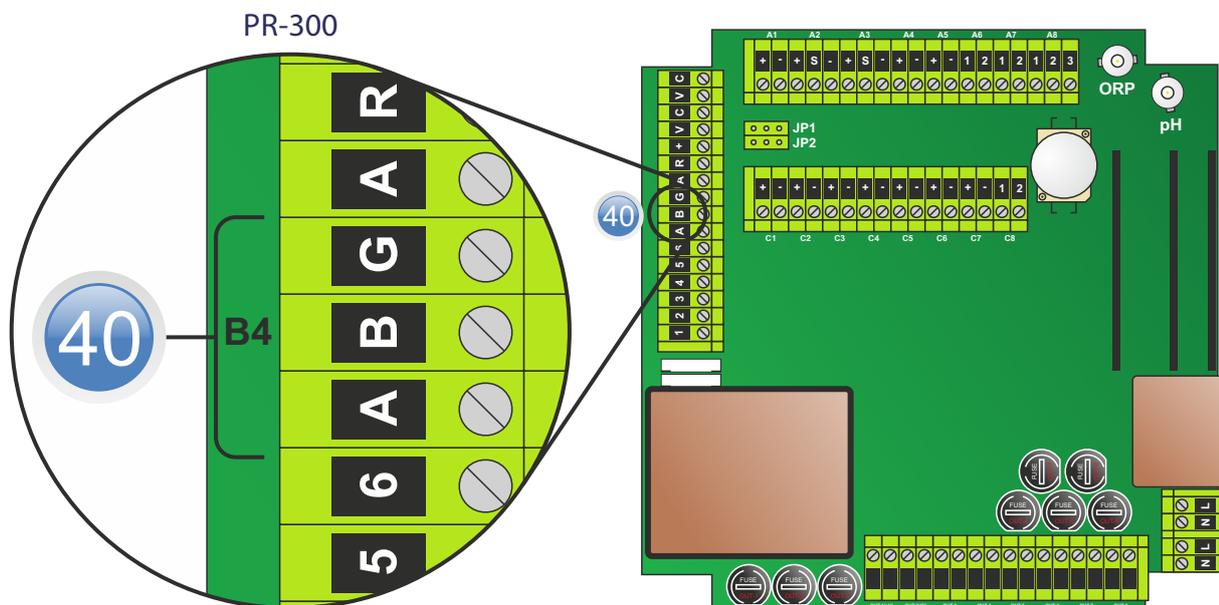
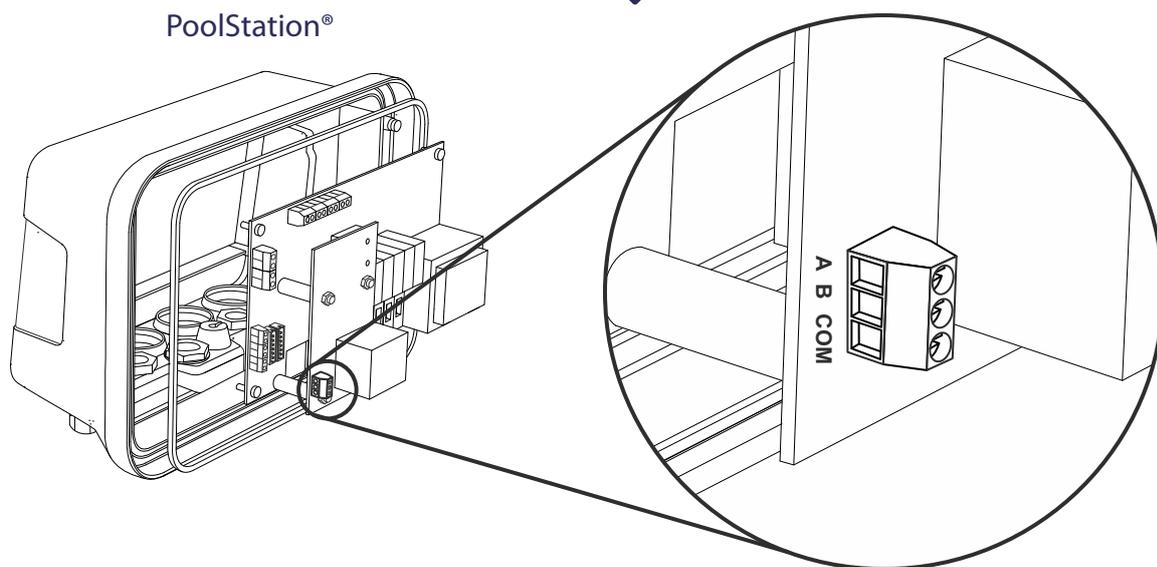
47 is fuse holder for 37 fused output.

48 is fuse holder for 38 alarm output.

- 49 230Vac Mains power input.

- 50 3V Lithium coin cell for real-time / calendar clock.
Recommended replacement time is 1 year or when depleted.
Ref.: CR2032 battery.

PoolStation® and PR-300 ModBus wiring diagram:



A: Datos Neg (AZUL)
B: Datos Pos (ROJO)
COM: Común (AMARILLO)

A: Neg data (BLUE)
B: Pos data (RED)
COM: Common (YELL)

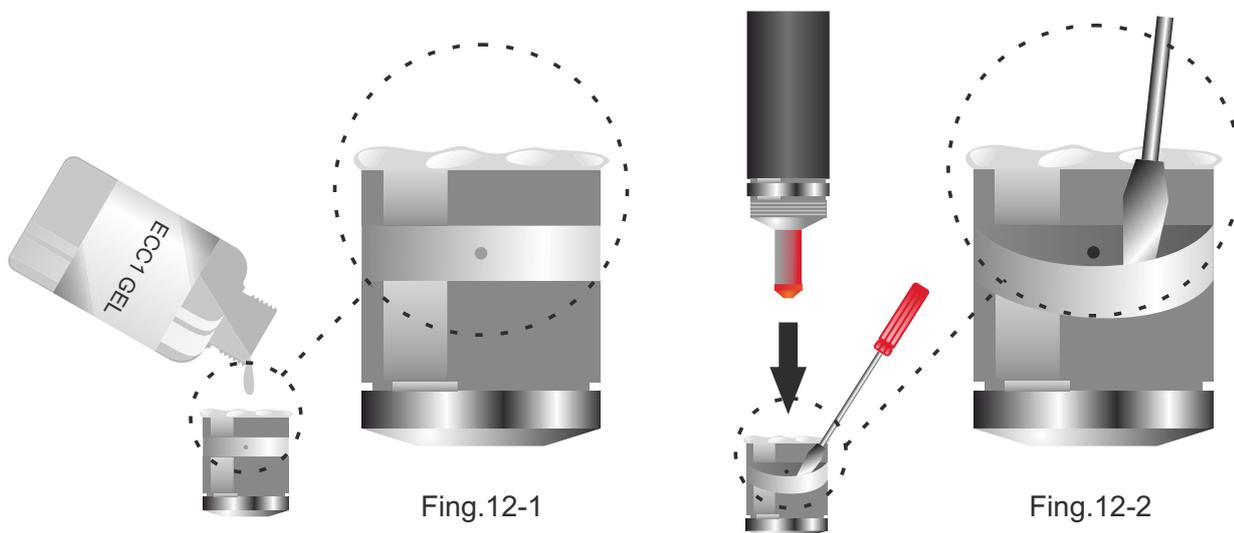
Cable de uso general con 3 hilos.
La caja PoolStation incluye un cable de 2 metros con 6 hilos

General use cable with 3 wires.
PoolStation box includes a 2 meter cable with 6 wires

Chlorine sensor assembly:



The chlorine sensor is a sensor for measuring the concentration of free chlorine in the water containing isocyanuric acid. This sensor also has low water pH dependence.



The electrolyte can exit through the bleed hole [6] when handling the membrane cap [9]. Being an aggressive liquid is recommended to wear gloves and goggles. In case of contact with skin or eyes, rinse thoroughly with water to the affected area.

1. Unscrew the membrane cap [9] sensor. Place the head on a clean membrane. Completely fill the head of the electrolyte membrane with EEC1/GEL preventing bubbles (Fig. 12-1).

2. Lift the transparent cover (Fig. 12-2) [7] the bleed hole [6] using a small screwdriver or similar tool and move it aside. This leaves the vent hole [6] air. Hold head vertically and screw firmly and completely over the sensor body, being careful with excess electrolyte that could come out of the bleed hole [6]. Replace the transparent cover [7] in place, covering the vent hole [6].

3. The board [3] causes an initial resistance to start screwing which ensures the seal. The head of the membrane [9] needs to curl, until it meets with the body of the sensor [1]. When the head [9] is completely screwed, the electrode [5] can not hit the membrane [8]. This damages the membrane and make it unusable.

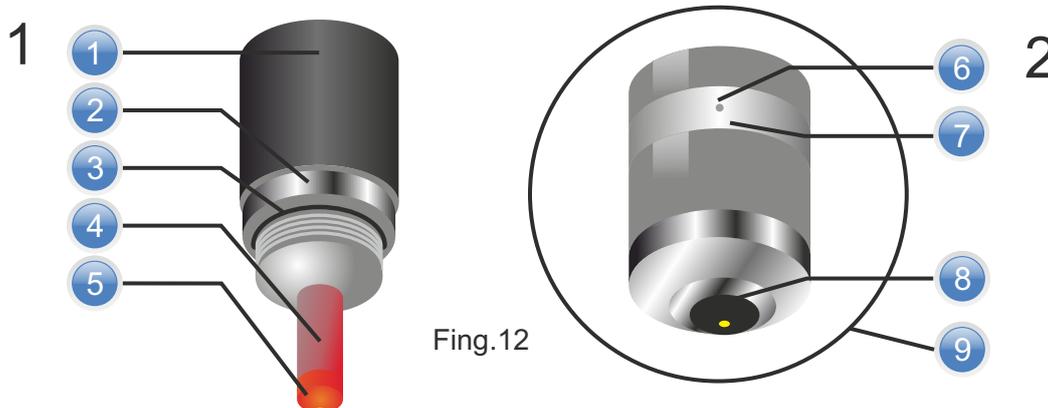
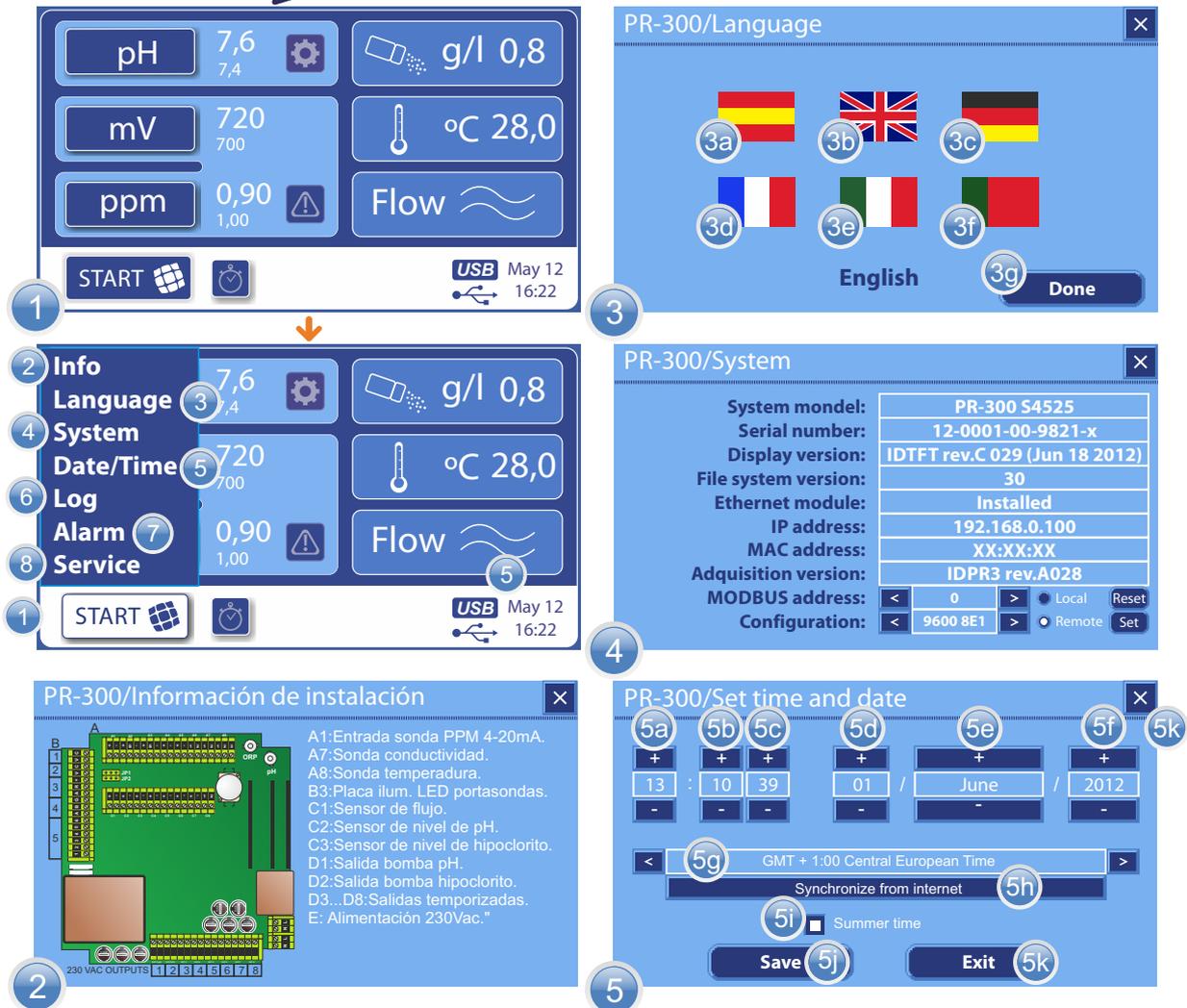


Fig.12

START chapter:



1 START button. Press it to show start menu. Press again to hide start menu.

2 INFO menu selection. Access to on screen installation information screen.

3 LENGUAJE menu selection. Access to system language selection screen.

3a Spanish language.

3d French language.

3g Done button. Sets selected language to system.

3b English language.

3e Italian language.

3c German language.

3f Portuguese language.

4 SYSTEM menu selection. Access to system information screen. It shows hardware status, serials, firmware versions and Modbus communication configuration. For detailed Modbus table see Modbus chapter.

5 DATE/TIME menu selection. Access to date and time set screen

5a Hour set [+] and [-] buttons.

5g Time Zone. IDINT must be installed.

5b Minute set [+] and [-] buttons.

5h Synchronize button. Forces date and time SNTP synchronization. IDINT must be installed.

5c Seconds set [+] and [-] buttons.

5i Summer time check. Check it for summer time (+1 hour).

5d Month day set [+] and [-] buttons.

5j Save button. Sets current time and date being edited to system.

5e Month set [+] and [-] buttons.

5k Exit to main menu.

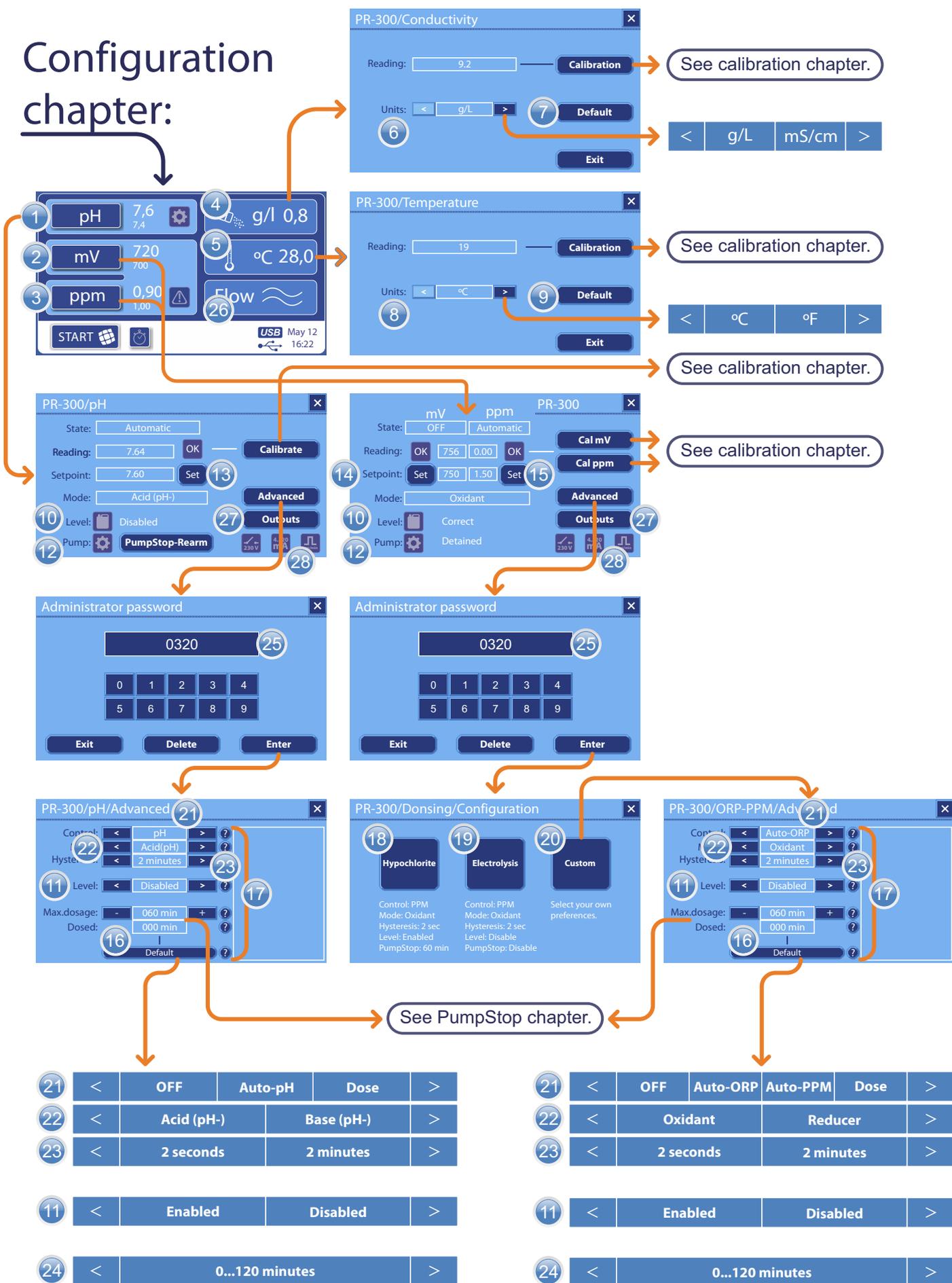
5f Year set [+] and [-] buttons.

6 LOG menu selection. Access to historical information.

7 ALARM source selection menu.

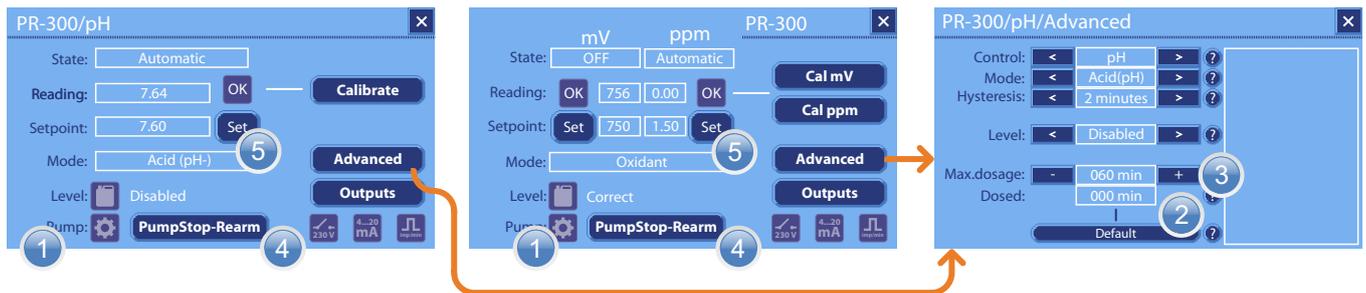
8 SERVICE menu selection. Section reserved for manufacturer and upgrades.

Configuration chapter:



- 1 Access to pH configuration.
- 2 Access to mV configuration.
- 3 Access to ppm configuration.
- 4 Access to conductivity configuration.
- 5 Access to temperature configuration.
- 6 Conductivity units. **g/L**: NaCl grams per liter of water (TDS).
mS/cm: milisiemens per centimeter.
- 7 Default calibration: resets conductivity calibration to factory defaults.
- 8 Conductivity units. **°C**: Celsius degrees.
°F: Fahrenheit degrees.
- 9 Default calibration: resets temperature calibration to factory defaults.
- 10 Level indicator. **Disabled**: Level input logic is disabled. No sensor level is installed.
Correct: Level input logic is enabled and level is correct.
Empty: Level input logic is enabled and level is low.
- 11 Level configuration. **Enabled**: Sensor level is installed. Level logic is enabled.
Disabled: Sensor level is not installed. Level logic is disabled.
- 12 Pumpstop indicator. **Dosing**: Pump is dosing.
Detained: Pump is detained.
Pump-Stop-Rearm: Press to pumpstop rearm.
- 13 pH Setpoint Set: Cycle setpoint in range 7.00 to 7.80 (7.00-7.20-7.40-7.60-7.80).
- 14 mV Setpoint Set: Cycle setpoint in range 600 to 850 (600-625-650-675-700-725-750-775-800-825-850).
- 15 Ppm Setpoint Set: Cycle setpoint in range 0.00 to 3.50 (increments in 0.10 units per touch).
- 16 Default settings: Resets configuration to factory defaults.
- 17 [?] Buttons: On screen contextual help.
- 18 Hypochlorite: Predefined configuration profile for hypochlorite dosage.
Control: PPM.
Mode: Oxidant.
Hysteresis: 2 seconds.
Level: Enabled.
PumpStop: 60min.
- 19 Electrolysis: Predefined configuration profile for electrolysis control.
Control: PPM.
Mode: Oxidant.
Hysteresis: 2 minutes.
Level: Disabled.
PumpStop: Disabled.
- 20 Custom dosing configuration: Allows user to customize settings.
- 21 Control configuration: **AUTO-xxx**: Recommended operation mode, regulator drives output for reach xxx setpoint.
OFF: regulator is disabled. No action over output.
Dose: Starts manual 15 minutes dose (900 seconds) ignoring probe measures during this period. Ideal for setup and maintenance pool routines.
- 22 Type of regulator agent inside bottle:
Acid (pH-): H2SO4, HCl, NaHSO4.
Base (pH+): NaOH, CaCO3.
Oxidant: Hypochlorite, Cl2, Br2...
Reducer: NaHSO3.
- 23 Output ON \leftrightarrow OFF time.
- 24 Maximum continued dosage time. For security reasons, output operation time is limited.
- 25 Sensitive settings are protected by administrator password that is always: 0320
Please reserve knowledge of this password to authorized personal only.
- 26 Flow indicator. When picture is animated flow is OK. When static, flow is absent.
- 27 Outputs
- 28 Outputs status icons. Show icon name, mode, and actual output value for each associated output.

PumpStop chapter:



1 Pump state. It shows actual pump state. It should be "Stop" or "Dosing".

2 Dosed time. Is the continued time that the pump is being at Dosing state.

This time is clear in the following cases:

- Reading reaches Setpoint.
- Manual action to stop pump.

3 Max. dosage time. It is the maximum time allowed for continued operation of pump at Dosing state. It is a security measure for prevent accidental depletion of tank into the pool, caused by malfunction of probes, setpoint or incorrect system installation.

Default value is 60 minutes for 80m³ pool.

Different pool volumes need different Max. dosage time. User must adjust it manually.

Set zero for value disable pumstop feature.

4 PumpStop "Reset". Button that appears when you exceed the maximum dosage. At this point, the pump stops dosage until you press the button "Reset".

If the alert appears frequently "PumpStop" please increase the maximum dosing time.

When the maximum dosage is properly configured, "PumpStop" should never appear.

5 Regulation Mode

Calibration pH chapter:

PR-300/pH

State: Automatic

Reading: 7.64

Setpoint: 7.60

Mode: Acid (pH-)

Level: Disabled

Pump: PumpStop-learn

Fast calibration

PR-300/pH/Calibration method

Select the type of calibration.

- Fast: portable meter with pool water.
- Standard calibration solutions.
- Default: Restore the factory calibration.

PR-300/pH/Fast calibration

- 1.-Measure the pH of water by any method outside this system.
- 2.-Enter the measure and press (Finish).

External reading: - 7.20 +



PR-300/pH/Standard calibration(1/4)

- 1.-Remove the pH probe (blue) from probe holder.
- 2.-Rinse the hair with running water and shake.
- 3.-Insert it into the standard solution pH = 7.0 (green).



PR-300/pH/Standard calibration(2/4)

- 4.-Stir the probe into the solution.
- 5.-Note the reading when stable press (Next).

Reading: 7.00



PR-300/pH/Standard calibration(3/4)

- 6.-Remove the probe from the dissolution of pH = 7.0 (green).
- 7.-Rinse with tap water and shake.
- 8.-Insert into the standard solution pH = 4.0 (red)



PR-300/pH/Standard calibration(4/4)

- 9.-Insert the temperature of the buffer solutions (4/7)
- 10.-Note the reading when stable press (Finish)

- 25.0°C +

Reading: 4.00



Errors

PR-300/Error

Calibration error (E1).

Calibration procedure has been cancelled. User spent maximum time allowed without action.



PR-300/Error

Calibration error (E2).

This may be due to one of the following reasons.

- 1.-Sensor incorrectly connected to system.
- 2.-Dissolution of calibration corrupt.
- 3.-Faulty probe. Cracked or compartment get contaminated with water (chlorine probe).



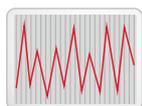
PR-300/Error

Calibration error (E3).

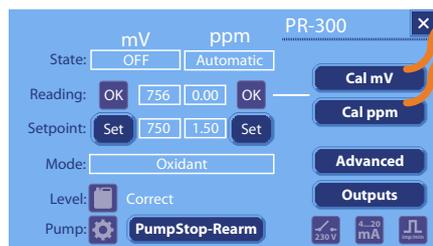
This is due following reasons.

- 1.-Measurement unstable.

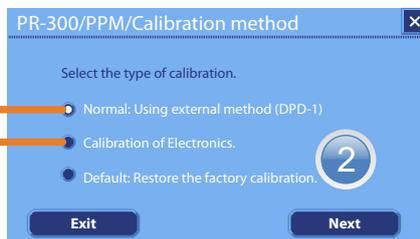
Make sure there are no bubbles in the tip probe, the water flow is sufficient and caliber again.



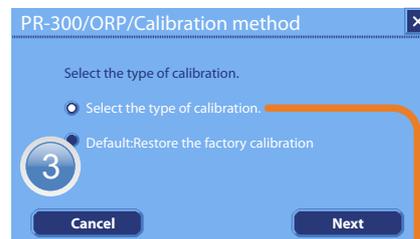
Calibration PPM/ORP chapter:



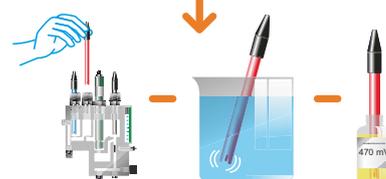
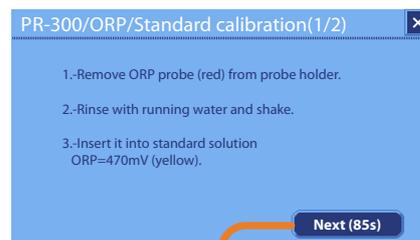
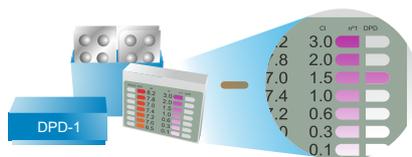
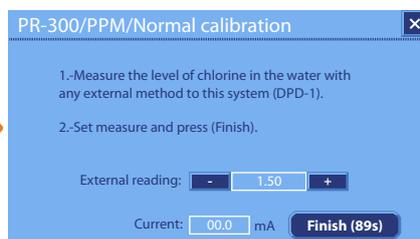
PPM calibration



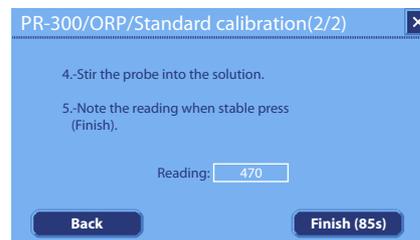
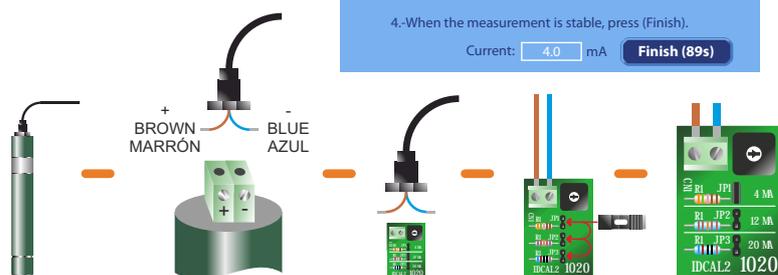
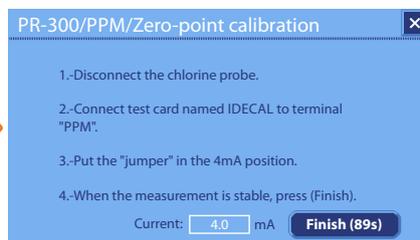
ORP calibration



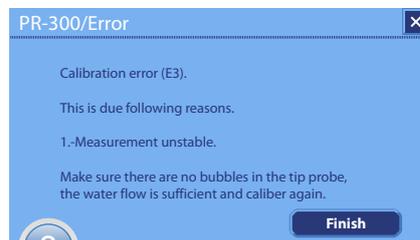
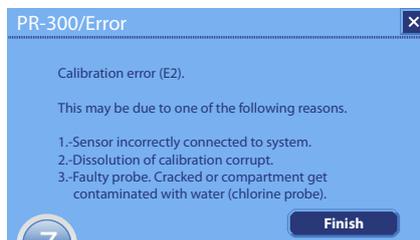
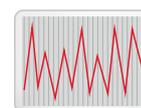
Normal calibration



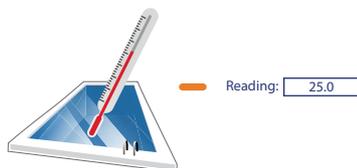
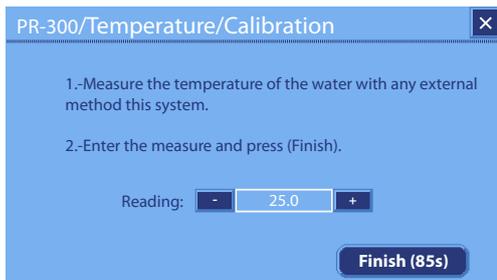
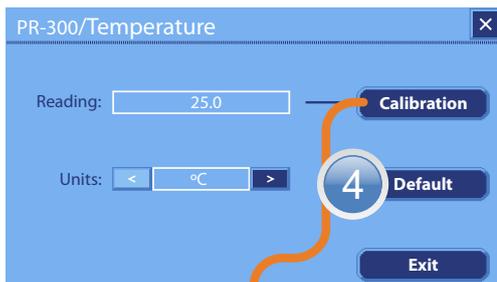
Calibration of electronics



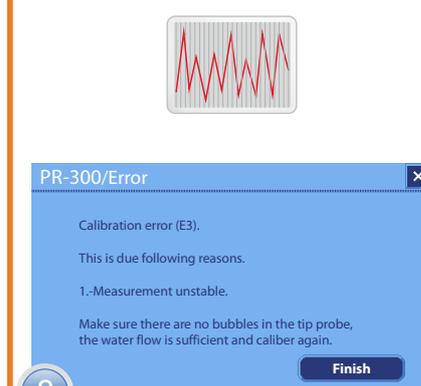
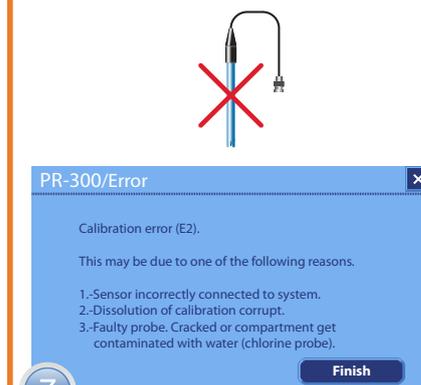
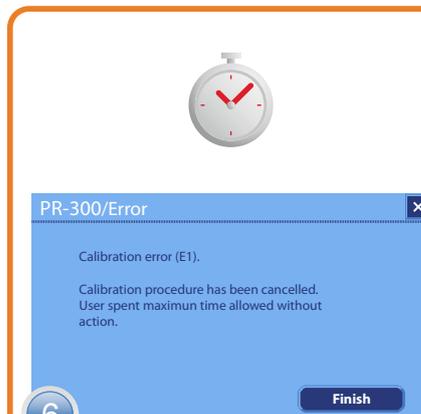
Errors



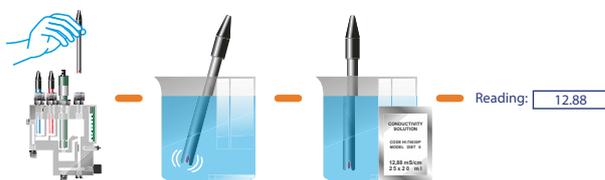
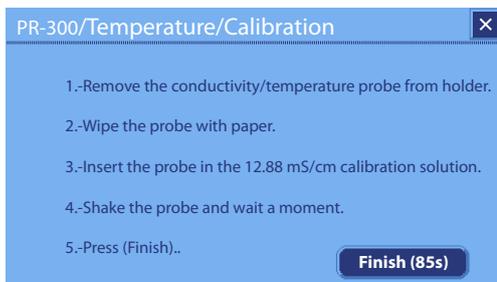
Calibration Temperature chapter:



Errors

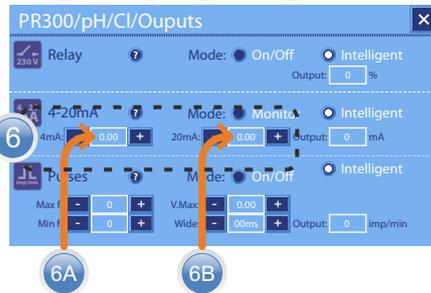
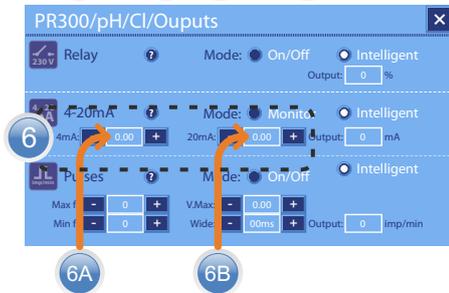
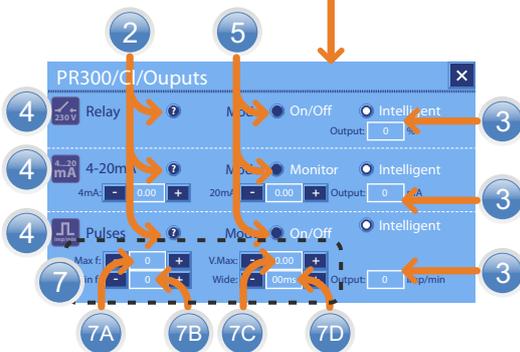
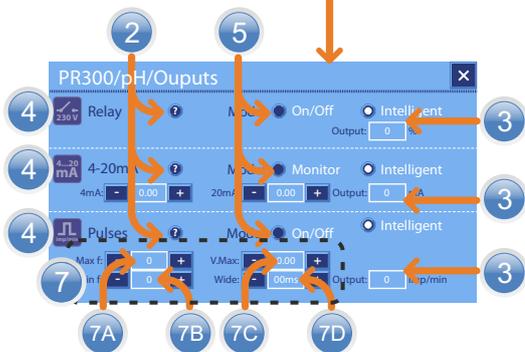
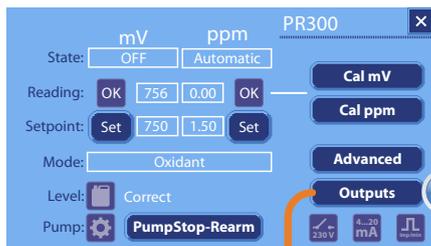
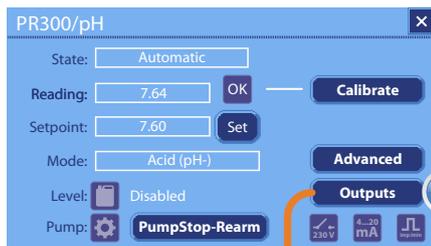


Calibration Conductivity chapter:



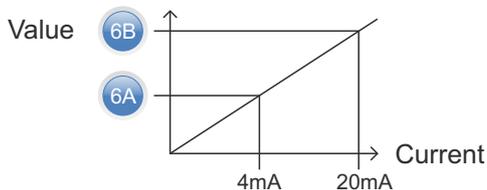
-
- 1 Default calibration: resets pH calibration to factory defaults.
 - 2 Default calibration: resets ORP calibration to factory defaults.
 - 3 Default calibration: resets PPM calibration to factory defaults.
 - 4 Default calibration: resets temperature calibration to factory defaults.
 - 5 Default calibration: resets conductivity calibration to factory defaults.
 - 6 E1 calibration error: Timeout.
 - 7 E2 calibration error: measure is highly skewed.
 - 8 E3 calibration error: measure is unstable.

Outputs:

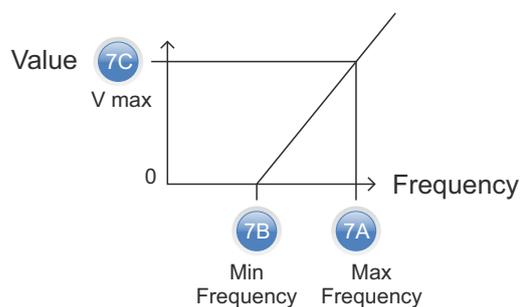
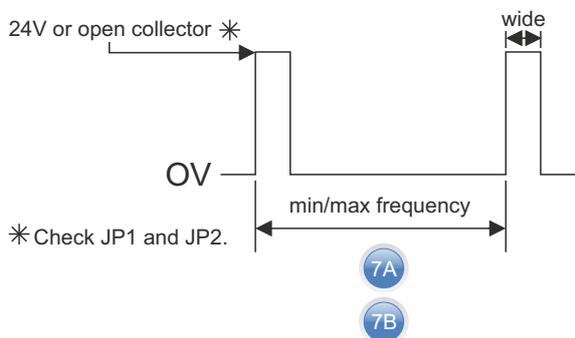


- 1 Access Outputs menu screen.
- 2 Show an screen legend to tocate output in hardware.
- 3 Output value.
- 4 Output icon and more indicators.
- 5 Output mode:
On/Off: Control is all/none.
Intelligent: Control is proportional to setpoint distance.
Monitor: Output value is a reading mirror.

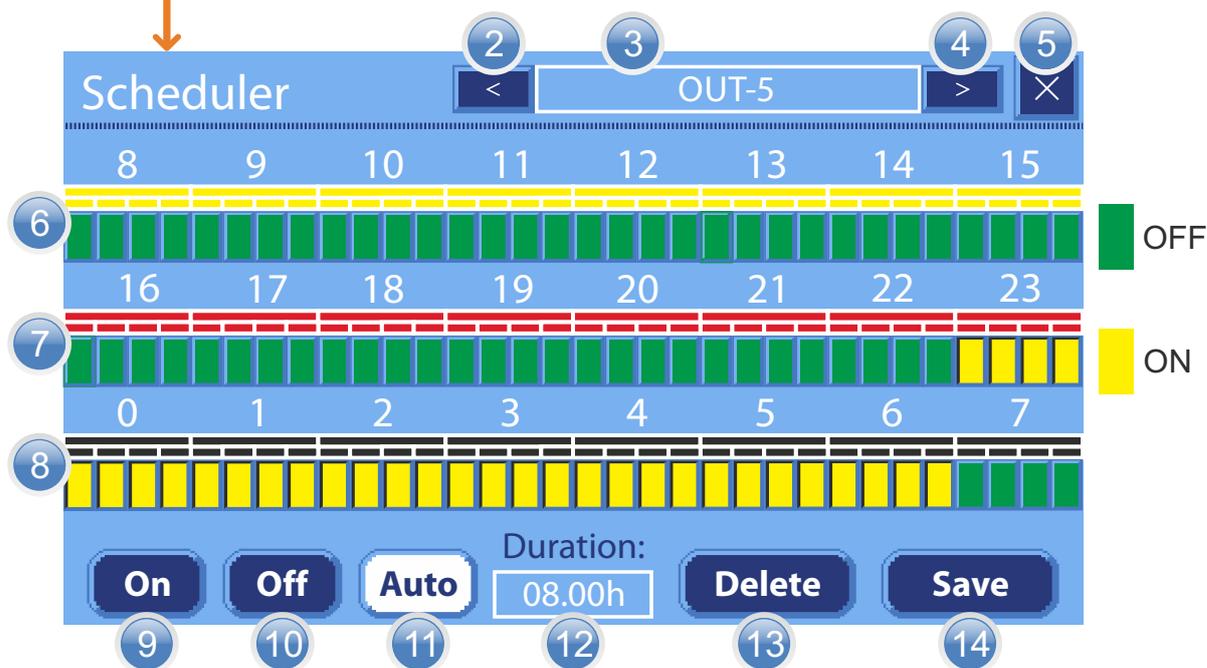
- 6 4-20mA output slope live:



- 7 Impulse output config:

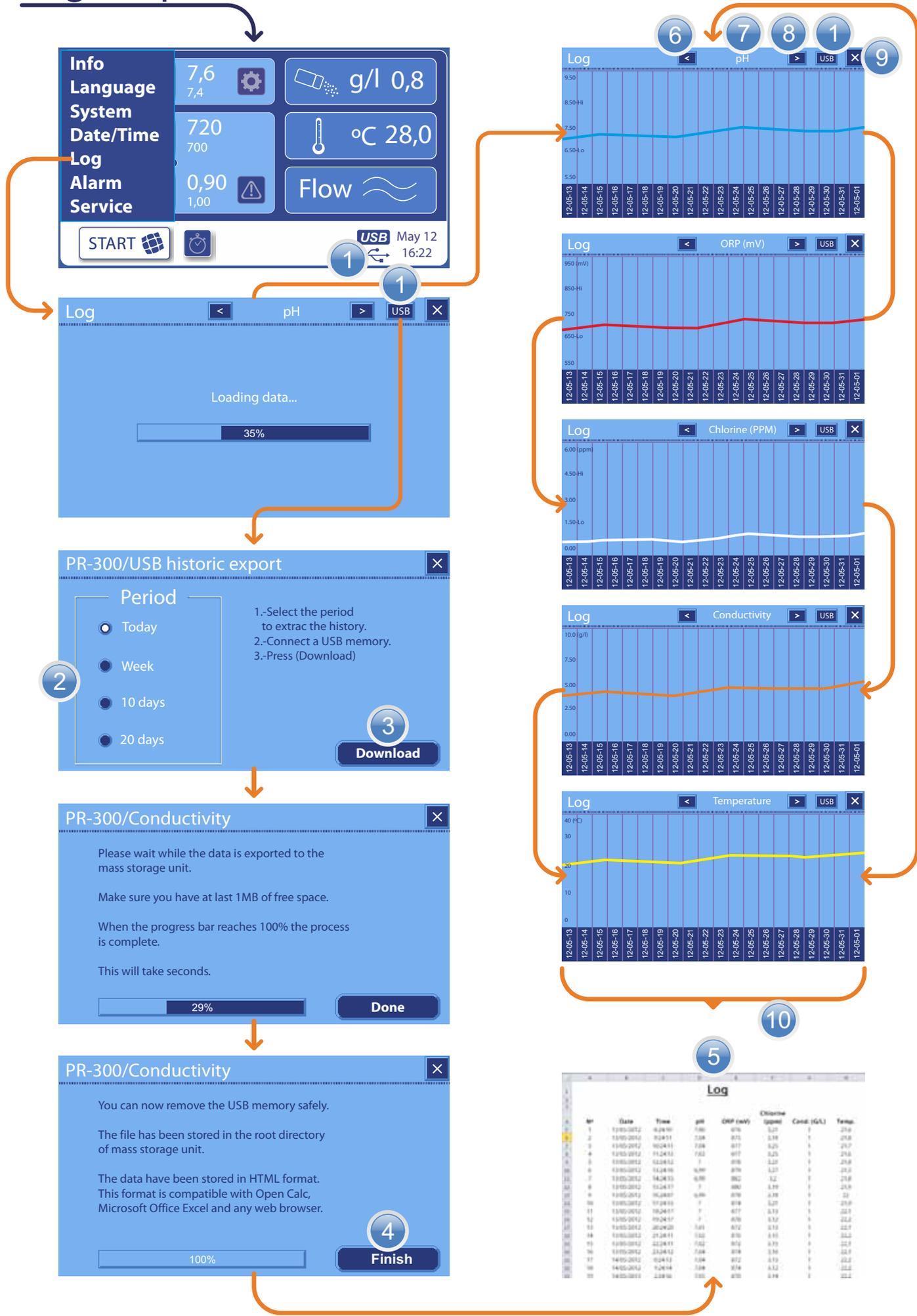


Scheduler chapter:



- 1 Access to Scheduler screen.
- 2 Left button for programmable output selection.
- 3 Name of selected programmable output being edited.
- 4 Right button for programmable output selection.
- 5 Quit button. Back to main menu. Changes will be lost.
- 6 Morning program. From 8:00 to 15:00h. Each button represents 15 minutes. Bright yellow means ON state.
- 7 Evening program. From 16:00 to 23:00h. Each button represents 15 minutes. Bright yellow means ON state.
- 8 Night program. From 0:00 to 7:00h. Each button represents 15 minutes. Bright yellow means ON state.
- 9 Manual Output activation. Overrides programming. Output is always ON.
- 10 Manual Output deactivation. Overrides programming. Output is always OFF.
- 11 Automatic operation. Output follows programming (ON Yellow / OFF Green). Please check it system time is OK for proper operation.
- 12 Program duration indicator. Sums ON time in program being edited.
- 13 Program delete. Sets all buttons to disable state.
- 14 Program save. Press it after program edit for save changes.

Log chapter:



Info Language System Date/Time Log Alarm Service

7,6
7,4

g/l 0,8

720
700

°C 28,0

0,90
1,00

Flow

START

USB May 12 16:22

Log pH

Loading data...

35%

PR-300/USB historic export

Period

- Today
- Week
- 10 days
- 20 days

1.-Select the period to extract the history.
2.-Connect a USB memory.
3.-Press (Download)

Download

PR-300/Conductivity

Please wait while the data is exported to the mass storage unit.

Make sure you have at last 1MB of free space.

When the progress bar reaches 100% the process is complete.

This will take seconds.

29%

Done

PR-300/Conductivity

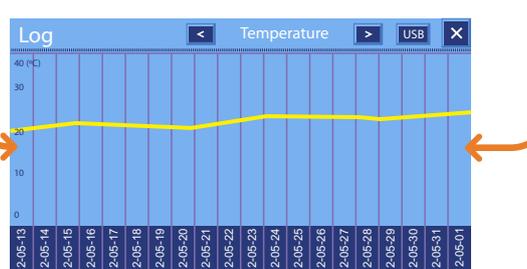
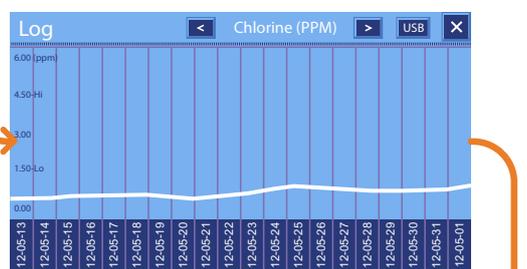
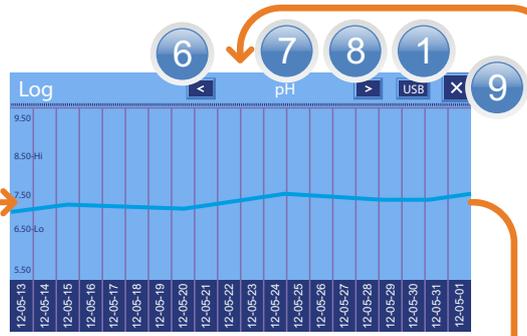
You can now remove the USB memory safely.

The file has been stored in the root directory of mass storage unit.

The data have been stored in HTML format. This format is compatible with Open Calc, Microsoft Office Excel and any web browser.

100%

Finish



Log

Slr	Date	Time	pH	ORP (mV)	Chlorine (ppm)	Conduct. (µS/L)	Temp. (°C)
1	12052012	08:00	7.20	700	0.70	40	20.0
2	12052012	08:30	7.20	700	0.70	40	20.0
3	12052012	09:00	7.20	700	0.70	40	20.0
4	12052012	09:30	7.20	700	0.70	40	20.0
5	12052012	10:00	7.20	700	0.70	40	20.0
6	12052012	10:30	7.20	700	0.70	40	20.0
7	12052012	11:00	7.20	700	0.70	40	20.0
8	12052012	11:30	7.20	700	0.70	40	20.0
9	12052012	12:00	7.20	700	0.70	40	20.0
10	12052012	12:30	7.20	700	0.70	40	20.0
11	12052012	13:00	7.20	700	0.70	40	20.0
12	12052012	13:30	7.20	700	0.70	40	20.0
13	12052012	14:00	7.20	700	0.70	40	20.0
14	12052012	14:30	7.20	700	0.70	40	20.0
15	12052012	15:00	7.20	700	0.70	40	20.0
16	12052012	15:30	7.20	700	0.70	40	20.0
17	12052012	16:00	7.20	700	0.70	40	20.0
18	12052012	16:30	7.20	700	0.70	40	20.0
19	12052012	17:00	7.20	700	0.70	40	20.0
20	12052012	17:30	7.20	700	0.70	40	20.0

- 1 Access USB log export menu screen.
- 2 Length of log file selection.
- 3 Download button. It is only active when valid FAT32 partitioned USB thumb drive is attached to system. Audible “beep” sounds when USB thumb drive is attached or removed.
- 4 Finish button. You can now remove thumb drive.
- 5 Log file look opened with Office Excel® in PC. Log file could be renamed from .xls to .html for open it with any internet browser. Log file is coded in HTML format.
- 6 Left button. Switch plot system variables in a closed loop.
- 7 Name of current plot.
- 8 Right button. Switch plot system variables in a closed loop.
- 9 Exit button. Return to main menu.
- 10 X axis 20 day plot. At Right, present day. At left 20 day before today. Date is coded as YY/MM/DD in vertical.

Alarm chapter:

The main menu shows the following data:

Info	7,6	g/l 0,8
Language	7,4	
System		
Date/Time	720	°C 28,0
Log	700	
Alarm	0,90	Flow
Service	1,00	

Buttons: START, USB, May 12 16:22

1 → PR-300/ Alarm output

Enable alarm output (D8) and red light in probe holder by:

- PH regulator alarms
- ORP regulator alarms
- PPM regulator alarms
- No flow

Done

↓

PR-300/ Alarm output

Enable alarm output (D8) and red light in probe holder by:

- PH regulator alarms
- ORP regulator alarms
- PPM regulator alarms
- No flow

2

Done

3

4

- 1** Access Alarm menu screen.
- 2** Alarms sources. Check each you want to enable.
- 3** Exit button. Return to main menu.
- 4** Finish button.