

ADDENDUM

2.2.3 ELECTRICAL CONNECTIONS TABLE

Terminal	Description	Chlorine	PH-Redox	PH - Chlorine	PH-CL-Redox
1	pH probe (+)	Not Used	PH probe input		
2	pH probe (-)				
3 - 4	Not used				
5	Redox probe (+)	Not Used	Redox probe input	Not Used	Redox probe input
6	Redox probe (-)				
7	Amp Chlorine Probe (+)	Chlorine probe input (CU-PT)	Not Used	Chlorine probe input (CU-PT)	Chlorine probe input (CU-PT)
8	Amp Chlorine Probe (-)				
9-16	Not used				
17	Temperature Probe (Green)	PT100 or PT1000 Temperature Probe Input			
18	Temperature Probe (Blue)				
19	Temperature Probe (Yellow)				
20 - 22	Not used				
23	Freq. output (+)	Not Used	pH	pH	pH
24	Freq. output (-)				
25	Freq. output (+)	Chlorine	Redox	Chlorine	Chlorine
26	Freq. output (-)				
27 - 30	Not used				
31	Current output (+)	Not Used	PH	PH	PH
32	Gnd Current output (-)	Output current GND connector			
33	Current output (+)	Chlorine	Redox	Chlorine	Chlorine
34 - 36	Not used				
37	RS 485 -	RS485 Serial Port with ModBus RTU protocol			
38	RS 485 +				
39	RS 485 GND				
40	Not used				
41	HOLD +	15 to 30 Vdc voltage input			
42	HOLD -				
43 - 44	REED	REED sensor input			
45 - 46	Level 1 Signal	Not Used	PH	PH	PH
47 - 48	Level 2 Signal	Chlorine	Redox	Chlorine	Chlorine
49 - 50	Relay 1 output (dry contact)	Alarm	Alarm	Alarm	Alarm
51 - 52	Relay 2 output (dry contact)	Not Used	Not Used	Not Used	Redox
53	Relay phase (100 to 240Vac)	Not Used	pH relay	pH relay	pH relay
54	Ground				
55	Relay neutral (100 to 240 Vac)				
56	Relay phase (100 to 240Vac)	Chlorine relay	Redox relay	Chlorine relay	Chlorine relay
57	Ground				
58	Relay neutral (100 to 240 Vac)				
59	Relay phase (100 to 240Vac)	Temperature Relay			
60	Ground				
61	Relay neutral (100 to 240 Vac)				
62	Relay phase (100 to 240Vac)	Time relay			
63	Ground				
64	Relay neutral (100 to 240 Vac)				
65	Power supply phase (100 to 240 Vac)	100 to 240 Vac 50/60 Hz Power Supply Connector			
66	Ground				
67	Power supply neutral (100 to 240 Vac)				

Example of the Connections Label affixed to the back of the instrument's connections compartment.

LABELS

PR

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0000134638 R.1.2 CAUTION REPLACE FUSES WITH SAME TYPE AND RATING

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0000134645 R.1.2 CAUTION REPLACE FUSES WITH SAME TYPE AND RATING

3.0 SETTINGS AND FUNCTIONALITY

3.1 INSTRUMENT DISPLAY

A				B			
12:30		FLOW ON		P ON	pH	7.40 pH	Hold
pH 7.20 pH		Tm 25.0°C		P ON	CL	0.80 ppm	
CL 1.50 ppm				P OFF	ORP	700 mV	
ORP 750 mV	Hold		A	R ON	T	25.0°C	A

The right/left keys can be used to select display modes A and B

Note: Any unavailable chemical measurements will not be displayed.

Mode A

Line 1 = Time or relais status RT (relais duration) is active; system water flow status

Line 2 = pH measurement display; Temperature measurement display.

Line 3 = Chlorine display; Network connection through RS485 serial port (↻ symbol)

Line 4 = ORP (Redox) display; Hold signal or OFA alarm flashing display, Available Alarms list display.

Mode B

Line 1 = pH dosing pump status, pH measurement display, Hold signal or OFA alarm flashing display.

Line 2 = Chlorine dosing pump status, Chlorine measurement display

Line 3 = ORP (Redox) dosing pump status, ORP (Redox) measurement display

Line 4 = Temperature relay status, Temperature measurement display; Available Alarms list display.

3.3.3 CL (CHLORINE) PROBE CALIBRATION

Connect the probe to the instrument as indicated in the electrical connections.

Select the CL probe from the Calibration menu.

2-----Calibration-----
2B1 One Point
2B2 Two Points

2B1 period one

CL	CAL.	Type: MAN
0.50 ppm		

CL	CAL.	Type: MAN
1.20 ppm		

CL	CAL.	Type: MAN
1.20 ppm		
Wait	10"	

- Use a reference instrument to read the chlorine value.
- Adjust the value shown on the display to match the value read by the reference instrument. Press **Enter** to confirm.
- Wait 10 seconds for the calibration to complete.
- Once the operation has concluded, a message will appear indicating that the calibration has been carried out successfully.

2B2 period two

2-----Calibration-----
2B21 First Point
2B22 Second Points
2B23 Active

- It makes chlorine reading through a reference device.
- Choose "Period one" option and change until the value shown on the screen brings up the value read by the reference device and press **Enter**.
- Wait for 10 seconds until the calibration is completed.
- Close the water input to the chlorine probe holder and wait for about 100 seconds
- Choose "Period one" option and change until the value shown on the screen (lower than the period one) brings up the value read by the reference device and press **Enter**.
- Wait for 10 seconds until the calibration is finished.
- Press the button "Active" on the menu to finish the calibration.

- **Menu index "3E" relais Time**

This light activates the Relais output time between 1 to 120 minutes

3E Relay Time
Status: Enable
Time On: 5
Time Off: 10