



MP2 Clever WiFi pH/Rx

Peristaltic Dosing Pump — pH / Redox (Rx) Controller
Installation, Maintenance & Programming Manual

Oxygen codes: 750.09.35 (pH) · 750.09.40 (Rx)



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the product page

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1. Product Overview



MP2 Clever WiFi pH/Rx

The MP2 Clever WiFi pH/Rx is a peristaltic dosing pump from the CLEVER FAMILY OLED range, designed for automatic pH and Redox (ORP) correction in swimming pools and water treatment systems. It incorporates a built-in Wi-Fi module for remote monitoring via the PoolControl app (iOS/Android).

Key Features

- Dual measurement: pH or mV (Redox/ORP) — user selectable
- OLED display with real-time reading and dosing status
- Wi-Fi 2.4 GHz (IEEE 802.11 ch. 5) — PoolControl app, iOS & Android
- Proportional dosing with configurable setpoint
- Built-in overdose alarm (AL)
- IP65, CE certified (LVD, EMC, RED, RoHS, REACH, WEEE, Machinery Directive)
- Max ambient temperature: 45°C

Applications

- Residential and commercial swimming pools
- Spa and hot tub water treatment
- Water treatment and disinfection systems

2. Technical Specifications

Product Name	MP2 Clever WiFi pH / Rx — CLEVER FAMILY OLED
Oxygen Code (pH)	750.09.35
Oxygen Code (Rx)	750.09.40
Measurement Type	pH or mV (Redox/ORP) — user selectable
Dosing Chemical — pH	Sulfuric acid H ₂ SO ₄ (pH–) or base (pH+)
Dosing Chemical — Rx	Liquid chlorine
pH Setpoint Range	6.0 – 8.0 pH (default: 7.3 pH)
Rx Setpoint Range	300 – 800 mV (default: 730 mV)
Max Proportionality — pH	1.0 pH (factory fixed)
Max Proportionality — Rx	100 mV (factory fixed)
Minimum Dosing Time	7.5 seconds
Flow Rate	6 l/h at 1 bar
IP Rating	IP65
Housing Material	Polypropylene body, Polycarbonate front
Power Supply	230 V AC, 50 Hz
Wi-Fi Frequency	IEEE 802.11 ch. 5 — 2.4 GHz
Wi-Fi TX Power	20 dBm
Probe Connector	BNC
Max Ambient Temp.	45°C
Dimensions Pump (W×D×H)	97 × 118 × 201 mm
Dimensions Panel (W×D×H)	430 × 153 × 600 mm
Warranty	24 months from delivery

Flow Rate & Alarm Volumes

Motor Speed	Flow Rate	pH Alarm Volume (TAL=75 min)
10 rpm	1.5 l/h	1.88 l
20 rpm	3 l/h	3.75 l
42 rpm	6 l/h	7.5 l

Motor Speed	Flow Rate	Rx Alarm Volume (TAL=150 min)
10 rpm	1.5 l/h	3.75 l
20 rpm	3 l/h	7.5 l
42 rpm	6 l/h	15 l

3. Supplied Accessories

Standard (included with pump)

- Foot valve (suction filter)
- Injection valve (check valve)
- 2 m PVC suction hose (flexible, crystal clear)
- 2 m PE delivery hose (rigid)

Optional / Included with Panel version

- Probe holder
- Buffer calibration solution
- pH or Rx measuring probe (electrode)
- Probe loading collar
- 4 m PVC/PE tubing
- 1/2" IN/OUT fittings

4. Safety Warnings

Read the following instructions carefully before installing, operating or servicing the pump.

GENERAL WARNINGS

- All maintenance or repair must be performed with the unit disconnected both electrically and hydraulically.
- During maintenance, always use personal protective equipment: gloves, apron, safety glasses.
- Do not operate the pump with wet hands or feet.
- Do not leave the equipment exposed to weather.
- In case of malfunction, disconnect power immediately and contact technical support.

The pump must only inject when water is circulating through the filtration system.
This pump is designed EXCLUSIVELY for sulfuric acid (H_2SO_4) or liquid chlorine. Use of any other chemical will void the warranty.

CE marking: the pump is manufactured in accordance with Directives 2014/35/EU (Low Voltage) and 2014/30/EU (Electromagnetic Compatibility). For warranty terms see Section 15 — Warranty.

5. Dosing Chemical

pH version: Sulfuric acid H_2SO_4 (pH–) or base (pH+)

Rx version: Liquid chlorine for Redox/ORP control

CHEMICAL HAZARD

Use of any other chemical (e.g., hydrochloric acid) will damage the peristaltic hose and void the warranty.

6. Operating Principle

The MP2 Clever WiFi pH/Rx is a peristaltic pump. A roller mounted on a roller holder compresses the peristaltic hose against a curved wall, creating a vacuum that draws chemical from the tank and pushes it through the delivery line into the pool circuit. Flow rate depends on motor rotation speed.

Proportional Dosing Examples

Measured pH	Pump Behaviour	Duty Cycle
> 8.3	Continuous dosing	100%
7.8	75 sec work / 75 sec pause	50%
7.3 (setpoint)	Pump stops	0%

Measured mV	Pump Behaviour	Duty Cycle
< 630 mV	Continuous dosing	100%
680 mV	75 sec work / 75 sec pause	50%
≥ 730 mV	Pump stops	0%

7. Installation

7.1 General Rules

Mount the pump so the pump head is vertical ($\pm 15^\circ$).

Install above the chemical tank — max height 1.5 m above chemical level.

If installed below chemical level, always use an anti-siphon injection valve.

Max ambient temperature: 45°C, ventilated, accessible area.

7.2 Electrical Connection

ELECTRICAL SAFETY

The pump must only inject when water flows through the filtration system. Never run dry.

Verify power supply matches pump label: 230 V AC, 50 Hz.

Ensure a high-sensitivity differential switch (0.03 A) is present.

Verify adequate earthing in accordance with local regulations.

Never connect in direct parallel with inductive loads (motors). If required, use a relay.

Minimum distance between injection point and probe analysis point: 60 cm downstream. Probe must always be vertical.

8. Programming

8.1 Select Measurement Mode (pH or Rx)

Press and hold both CAL + SET for 3 seconds until the current mode appears. Press SET briefly to toggle between pH and Rx (RDX). Release — the selected mode saves automatically and the pump restarts.

8.2 pH Setpoint

Press and hold SET for 3 seconds. Display shows SP then the current value (default 7.3). Press SET repeatedly to select a value between 6.0 and 8.0. Wait 5 seconds without pressing — value saves automatically.

8.3 Rx Setpoint

Press and hold SET for 3 seconds. Display shows SP then the current value (default 730 mV). Press SET repeatedly to select a value between 300 and 800 mV. Wait 5 seconds to save.

8.4 Default Settings

pH Setpoint (default)	7.3 pH
pH Max Proportionality	1.0 pH (factory fixed)
pH Dosage Type (default)	Sulfuric acid H ₂ SO ₄ (pH–)
Rx Setpoint (default)	730 mV
Rx Max Proportionality	100 mV (factory fixed)

9. Calibration

BEFORE CALIBRATION

Connect to the PoolControl app BEFORE calibrating. Without app connection, the pump will not store the correct calibration date.

9.1 pH Calibration

Dip the pH probe into the pH 7 buffer solution. Wait for the reading to stabilise.

Press and hold CAL for 3 seconds. The value 7.0 will blink on the display.

Calibration completes automatically when the display shows a fixed value.

If RC appears, press CAL and repeat. If RC appears again, replace the probe.

9.2 Rx Calibration

Dip the Rx probe into the 468 mV buffer solution. Wait for stabilisation.

Press and hold CAL for 3 seconds. The value 468 will blink.

Calibration completes when display shows a fixed value.

If RC appears after two attempts, replace the probe.

10. Wi-Fi — PoolControl App

The pump transmits data via Wi-Fi 2.4 GHz. Maximum range (no obstacles): 20 m. Stay close to the pump for reliable connection.

10.1 Connecting to the Pump

Download PoolControl from the App Store or Google Play.

Turn on the pump.

Enable Wi-Fi on your smartphone and connect to the network MP1_XXXXXX.

Open the PoolControl app.

Only one device can connect simultaneously. If connection is lost, close and reopen the app.

10.2 App Home Page

1 — Dosing status	Dosing / No dosing. For pH: direction (acid– / base+)
2 — Real-time reading	pH or Rx. Green = in range, Red = out of range
3 — Setpoint bar	Visual bar proportional to reading vs setpoint
4 — Alarm status	Green = normal, Red = pump in alarm (AL)
5 — Last calibration date	Green = < 60 days, Red = > 60 days

11. Periodic Maintenance

Task	Frequency	Notes
Check chemical tank level	Weekly	Top up as needed
Inspect suction & delivery hoses	Weekly	Clean or replace if blocked
Check suction foot filter	Weekly	Blockage reduces flow
Check pH and free chlorine (test kit)	Weekly	Verify correct dosing
Recalibrate the probe	Every 3 months or on drift	Use fresh buffer solution
Replace peristaltic hose	Annually (minimum)	Consumable — not under warranty

11.1 Probe Cleaning

Dip the electrode in a mild acid solution (e.g., vinegar — max 2% acid, 98% water) for 5 minutes, then rinse with water. Never leave the electrode dry. Store with the plastic cap filled with tap water.

11.2 Peristaltic Hose Replacement

Remove the cover by pulling in the direction of the arrow.

Unlock the front glass: press the tab between the 2 ring nuts with a screwdriver. Remove the glass.

Release the left connector of the old hose. Rotate the roller holder to free the hose. Remove.

Insert the left connector of the new hose. Rotate the roller holder clockwise so the hose seats naturally.

Insert the right connector. Replace and secure the cover.

BEFORE ANY MAINTENANCE

Always disconnect the pump from power before any maintenance.

12. Alarm Function (AL)

The alarm function prevents continuous dosing when the chemical tank is empty or when a sensor malfunction is detected. If the measured value does not reach the setpoint after the alarm volume is exceeded (see Section 2 tables), the pump enters alarm mode, stops dosing, and displays AL. To reset: press SET for 3 seconds. Check the chemical level before restarting.

13. Troubleshooting

Problem	Possible Cause	Solution
Pump does not switch on	Incorrect electrical connection	Check wiring (230V AC, 50Hz)
Runs but no liquid injected	Empty chemical tank	Refill tank
Runs but no liquid injected	Suction foot filter blocked	Clean or replace foot filter
Chemical leak from pump head	Damaged peristaltic hose	Inspect and replace hose
Display shows AL	Tank empty or sensor fault	Check level; reset SET 3s
Display shows RC after calibration	Probe worn or damaged	Replace probe after 2 failed attempts
Inaccurate readings	Probe needs calibration	Recalibrate with fresh buffer

14. Spare Parts Reference

Pos. 1 — Cover	00.010.209
Pos. 2 — Cover gasket	00.027.051
Pos. 3 — Screw TC+ 3.5×10 INOX (×2)	00.030.028
Pos. 4 — Motor 230V 10 rpm	11.002.433
Pos. 4 — Motor 230V 20 rpm	11.002.438
Pos. 4 — Motor 230V 42 rpm	11.002.420
Pos. 6 — Complete roller holder	11.010.401
Pos. 7 — Complete peristaltic hose	RR.005.003
Pos. 13 — HTP connector	11.050.022
Pos. 15 — ON/OFF switch	00.050.020
Pos. 16+18 — PCB (OLED)	RR.001.647
Pos. 17 — Cable clamp M12 + nut	00.050.062 + 00.050.063
Pos. 20 — Wall bracket	11.100.018

15. Warranty

OXYGON warrants this product against defects in materials and workmanship for a period of 24 months from the date of delivery to the first user. Within this period, Oxygen or its authorised representatives will supply free of charge any parts found defective, or repair them. Repair or replacement does not extend the warranty period.

Warranty Does Not Cover

- Use contrary to these instructions
- Repair or modification by non-authorised workshops
- Use of non-original spare parts or accessories
- Damage from chemicals other than H₂SO₄ or liquid chlorine
- Electrical damage from external factors (overvoltage, lightning)
- Consumable parts: peristaltic hose and measuring probe (natural wear)

Contact Information

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ISO Certifications

ISO 9001:2015 Quality Management <i>EUROCERT</i>	ISO 14001:2015 Environmental Management <i>BQV</i>	ISO 45001:2018 Health & Safety <i>BQV</i>
ISO 22301:2019 Business Continuity <i>EUROCERT</i>	ISO 46001:2019 Water Efficiency <i>BQV</i>	

Recycling of materials must be carried out in accordance with applicable regulations.