Emaux

DP300
INSTALLATION AND OPERATION MANUAL

USER MANUAL

CyberSync+
DOSING SYSTEM
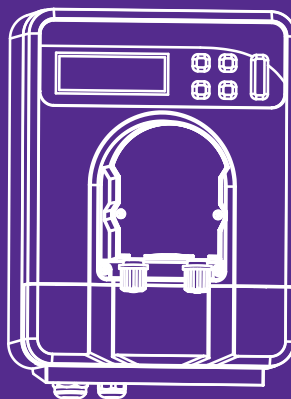
CE · RoHS DIRECTIVE 2011/65/Eu · SAA

Model: DP300

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DP300

FOR ABOVE AND INGROUND POOL

WARNINGS

This product should be installed and repaired by a technician who is qualified in the installation and maintenance of indoor pool/spa products. Please read this manual before installing the product. The instructions in this manual can be followed exactly. Disconnect electrical power before removing the cover for servicing unit. Replace all screws and covers before reconnecting the unit to electric power. Incorrect installation and/or operation can cause serious injury, property damage, or death. To reduce the risk of injury, do not permit children to use this product. Improper installation and/or operation will void the warranty.

IMPORTANT SAFETY INSTRUCTIONS

When installing and using this electrical equipment, basic safety precautions should always be followed, including the following:

1) READ AND FOLLOW ALL INSTRUCTIONS.
2) WARNING–To reduce the risk of injury, do not permit children to use this product unless they are closely supervised at all times.
3) WARNING–Risk of Electric Shock. Connect only to a branch circuit protected by a ground-fault circuit interrupter (GFCI). Contact a qualified electrician if you cannot verify that the circuit is protected by a GFCI.
4) The unit must be connected only to a supply circuit that is protected by a ground-fault circuit-interrupter (GFCI). Such a GFCI should be provided by the installer and should be tested on a routine basis. To test the GFCI, push the test button. The GFCI should interrupt power. Push the reset button. Power should be restored. If the GFCI fails to operate in this manner, the GFCI is defective. If the GFCI interrupts power to the pump without the test button being pushed, a ground current is flowing, indicating the possibility of an electric shock. Do not use this pump. Disconnect the pump and have the problem corrected by a qualified service representative before using.
5) Do not bury cord. Locate cord to minimize abuse from lawn mowers, hedge trimmers, and other equipment.
6) WARNING – To reduce the risk of electric shock, replace damaged cord immediately.
7) WARNING – To reduce the risk of electric shock, do not use extension cord to connect unit to electric supply; provide a properly located outlet.
8) Mounting location of the supply unit at least 1.5 m from the pool.
9) Proper disassembly and reassembly of the cell for cleaning.
10) The unit installation position should be at least 1.5m away from the swimming pool.

1. PRODUCT INTRODUCTION

Emaux "CyberSync" Peristaltic Dosing Pump series – a groundbreaking addition. Designed for 30m² to 150m² swimming pools, this innovative series offers three versions: Core-Pro, Core-Plus, and Core. There are five different models available for order. Each tailored to meet different requirement s of pool owners and professionals.

Featuring peristaltic technology, the "CyberSync" Dosing Pump delivers precise and reliable dosing, ensuring your pool remains meticulously balanced and properly sanitized. The user-friendly control panel facilitates intuitive operation and control, while the chemical-resistant BTP tube and durable shield enhance the pump's dependability, making it a true workhorse in pool chemical management.

Boasting a wide voltage range from 110V to 240V, the "CyberSync" series adapts to various electrical systems, simplifying the installation process. The Emaux "CyberSync" is the ultimate solution for maintaining a crystal-clear, balanced, and properly sanitized pool.

2. SPECIFICATIONS

DP300-X   **DP300-ORP**   **DP300-PH**   **DP300**

DP300-X is a new, fully functional peristaltic dosing pump designed for automatic dosing. It can be paired with either the Emaux PH probe or ORP probe for automated dosing. The pump also features external connectivity, allowing for integration with pump control, level sensors, alarms, and external dosing pumps. This provides a simple and comprehensive automation solution for dosing needs.

DP300-ORP (DP300-PH) is an easy-to-use automatic dosing version specifically designed for ORP (PH). The user-friendly segment LED display provides real-time ORP (PH) measurement information, allowing users to monitor the pool condition effectively. Users can easily manage and adjust the ORP (PH) levels as needed.

DP-300 is designed for users seeking a basic dosing solution, the DP-300 is the ideal choice. It allows users to adjust the dosing rate in the simplest way possible, providing flexibility and convenience.

Code	Model	Pressure Bar [psi]	Max Flow L/hr [gpm]	Range	Operating voltage	Power
9130113	DP300-X-ORP	1.5 [22]	3 [0.0132]	pH: 4-10 ORP: 300-900mV	110-240V	20W
9130117	DP300-X-PH					
9130114	DP300-ORP			pH: 4-10		
9130115	DP300-PH			ORP: 300-900mV		
9130116	DP300					

Code	Model	Main unit	Accessory kit
9130113	DP300-X-ORP	DP300-X	ORP probe, probe holder, ORP cal kit, fitting set, wall mount holder and level switch
9130117	DP300-X-PH		PH probe, probe holder, PH cal kit, fitting set, wall mount holder and level switch
9130114	DP300-ORP	DP300-ORP	ORP probe, probe holder, ORP cal kit, fitting set, wall mount holder.
9130115	DP300-PH	DP300-PH	PH probe, probe holder, PH cal kit, fitting set, wall mount holder.
9130116	DP300	DP300	fitting set, wall mount holder.

2. 1 DIMENSION(mm)
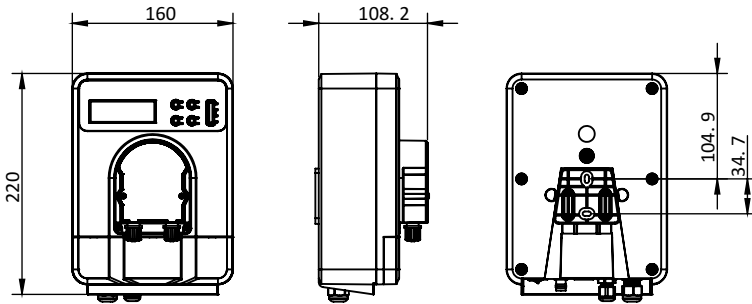
2. 2 ACCESSORIES

Product name	Parameter	DP300-X-ORP	DP300-X-PH	DP300-ORP	DP300-PH	DP300
ORP probe	Pressure: 7 bar Material: epoxy Range: 300-900mV (w/ 3m signal line) Electrode body dia.: 12mm	✔	✘	✔	✘	✘
PH probe	Pressure: 7 bar Material: epoxy Range: 0-14 (w/ 3m signal line) Electrode body dia.: 12mm	✘	✔	✘	✔	✘
Probe holder	½" male thread	✔	✔	✔	✔	✘
256 buffer solution	256mV, 30mL	✔	✘	✔	✘	✘
PH probe buffer solution pH4 and pH7	pH 4.0 and pH 7.0, 30mL	✘	✔	✘	✔	✘
Dosing pipe fitting	Pressure: 7 bar PE Tube: 4x6 tube x 1 pc PVC Tube: 4x6 tube x 1 pc PVDF Injection fitting: ½" meal thread x 1 pc PVDF strainer: with valve x 1 pc	✔	✔	✔	✔	✔
Level probe	w/ 2m signal line	✔	✔	✘	✘	✘
Wall mount holder	With screw	✔	✔	✔	✔	✔

3. INSTALLATION & OPERATION

3.1 Installation:

Install Position:
- Position the pump according to the guidelines illustrated in Figure 3. Take note that the pump can be installed either below or above the liquid level to be dosed. However, ensure that the vertical distance between the pump and the liquid does not exceed 2 meters.
- If the liquid being pumped generates aggressive vapors, exercise caution. Avoid installing the pump above the storage tank, unless the tank is completely sealed to prevent the escape of vapors.
- Carefully following these installation instructions will help ensure the proper functioning of the pump and minimize any potential risks associated with aggressive vapors.

Tubing:
- Inlet Tubing - (Compression tube models) -Locate the inlet fitting of the Pump Tube. Remove the tube nut. Push the clear PVC suction tubing onto the compression barb of the fitting. Use the tube nut to secure the tube. Hand tighten only.
- Footvalve/ Strainer – Trim the inlet end of the suction tubing so that the strainer will rest in the vertical position, approximately on inch from the bottom of the solution tank. This will prevent sediment from clogging the strainer. Loss of prime may occur if the footvalve is permitted to lay on the bottom of the solution tank in a horizontal position. Press the footvalve/ strainer into the end of the tube. Drop the strainer into the solution tank.
- Outlet tubing – Locate the outlet fitting of the pump head, remove the tube nut. Push the rigid outlet (discharge) tubing onto the compression bard of the fitting. Use the tube nut to secure the tube. Hand tighten only.
  Trim the other end of the outlet tube leaving only enough slack to connect it to the Injecion / Check valve Fitting. Increasing the length of the outlet tube increses the back pressure at the pump head, particulary when pumping viscous fluids.
  Keep the inlet and outlet tubes as short as possible

Injection/ Check Valve
- Injection/ Check Valve is designed to install directly into ½" female pipe threads. This fitting will require periodic cleaning, especially when injection fluids that calcify such as sodium hypochlorite. These lime deposits and other build ups can clog the fitting increasing the back pressure and interfering with the check valve operation.
- Install the Injection/ Check valve directly into the tee fitting. Do not install the fitting into a pipe stud and then into the tee. The solution must inject directly into the flow stream.
- Use PTFE thread sealing tape on the pipe threads. Push the opaque outlet (discharge) tubing onto the compression barb of the Injection / Check valve fitting. Use the tube nut to secure the tube. Hand tighten only.
- Injection valve should be placed on the main pipe after all pool accessories (heating. Etc.).
- Locate the most suitable point on the pipe, install a ½" female threaded adaptor (reducer tee or service saddle with ½" female thread could be used) at the selected injection point. Please noted that adaptor/ reducer tee/ service saddle are not supplied in the accessories list. Make sure adaptor is well connected.

## 3.1.1 Probe instruction: (DP300-X, DP300-ORP, DP300-PH)

It is essential that the probe holder place on the main pipe after all pool accessories (heating. Etc.) and before injection valve (should be separated to probes minimum 10cm) and cell of salt chlorinator. The holder is designed to install directly into ½" female pipe threads. Probes are required periodic maintenance and calibration.

Locate the most suitable point on the pipe, install a ½" female threaded adaptor (reducer tee or service saddle with ½" female thread could be used) at the selected injection point. Please noted that adaptor/ reducer tee/ service saddle are not supplied in the accessories list. Make sure adaptor is well connected.

Attach the probe holder (by screwing it) in place. To ensure a proper seal, insert a gasket tape, such as Teflon, between the valve and the connector.
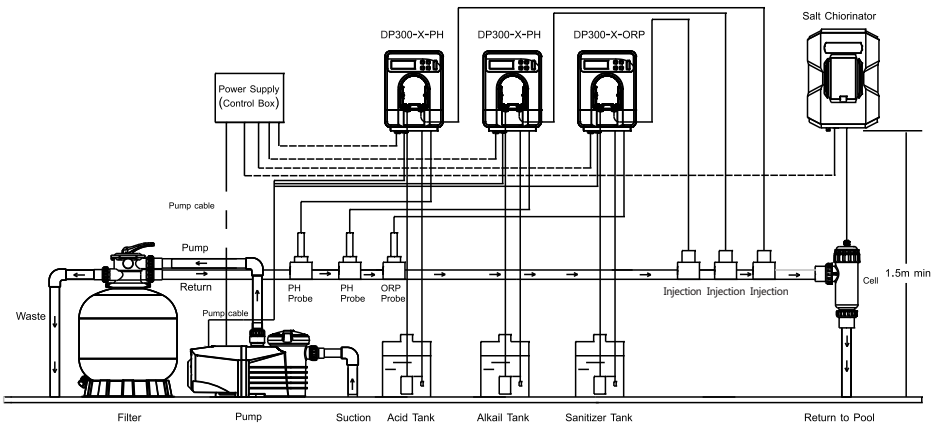

RECOMMENDED CIRCUIT (BYPASS) FOR INSTALLATION AND MAINTENANCE
**pH AND RX SENSORS**
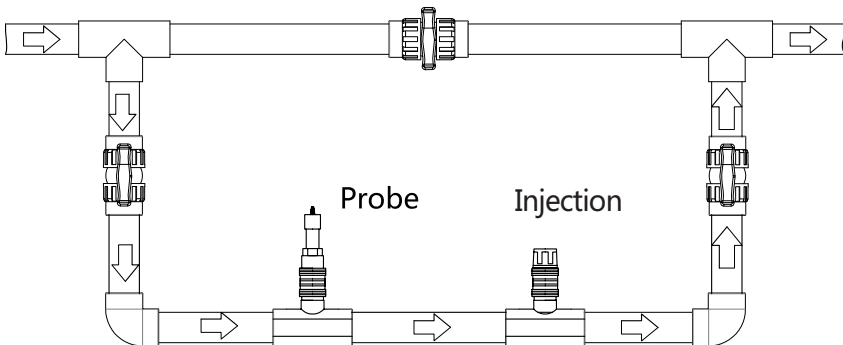
3.1.2 Electrical terminals (DP300-X only)

Carefully adhere to the electrical installation regulations in effect within the various countries (Fig.below). If the supply cable lacks a plug, the equipment should be connected to the power mains using a single-pole circuit breaker with a minimum contact gap of 3 mm. Ensure all supply circuits are disconnected before accessing any electrical components.
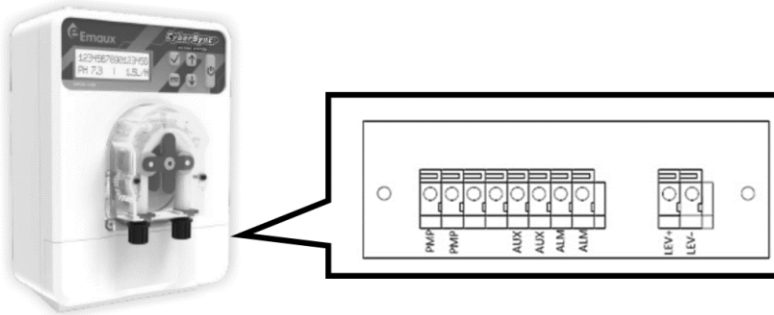

Terminal	Function	Type
1, 2: PMP	Filtration pump detection, when voltage is input, the pump on.	Input: 110V – 240V AC (do not higher than input power to the pump)
5, 6: AUX	Output relay. Powered at input power and it wok in proportional mode by time like the pump	Output: 110V – 240V (same as input power to the pump.) max current output: 500mA.
7, 8: ALM	External Alarm relay. Free contact	Output: • Close – Alarm • Open – normal
9, 10: LEV	Level sensor input	Input (when level sensor function is activated): • Open – stop with low level alert • Close - run

Wiring diagram:
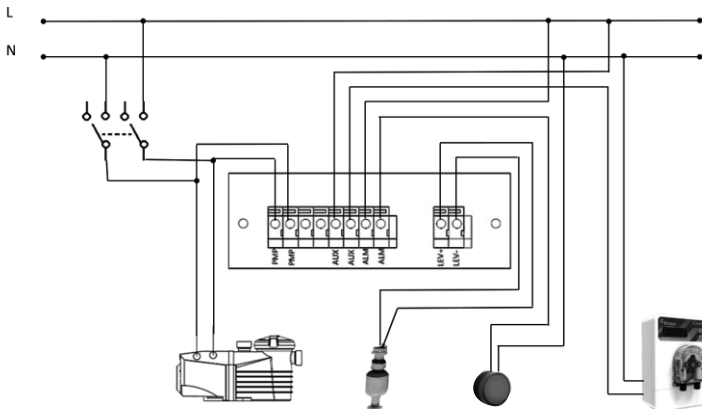
3.2 Function and menu

3.2.1 Key feature:
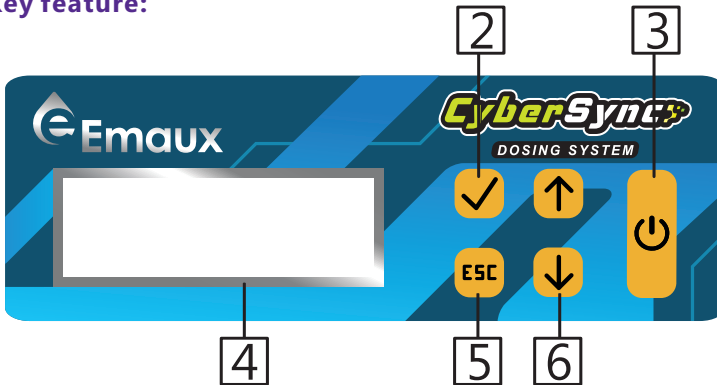
| Key	Function	Type
1	Power switch	(rocker switch at the bottom) Power on/ off the pump
2	Menu / confirm	Confirm selection Press and hold to enter Basic menu
3	on / off	Start/ stop the pump function Press and hold to enter Auto threshold setting menu
4	Display	Display and show the status of the pump
5	ESC / cancel	ESC/ cancel selection
6	Up / Down	Up and down selection

Remark:

DP300 contains keys on/off, ↑ and ↓ only

Display: DP300-X is matrix LCD; DP300, DP300-ORP, and DP300-PH are segment LED

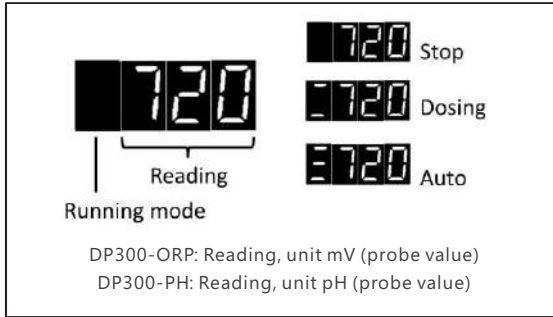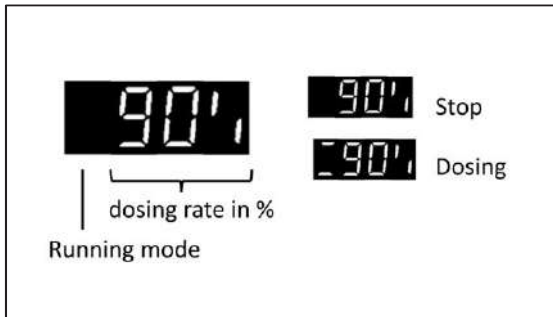### 3.2.2 Display

Power up and operating mode

Once the pump is power up, you can see the following information on the screen
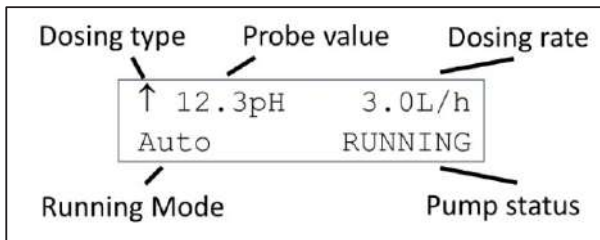
DP300-X operating screen

DP300-ORP: Reading, unit mV (probe value)
DP300-PH: Reading, unit pH (probe value)

DP300-ORP/ DP300-PH operating screen

DP300 operation screen

Dosing type:
When the dosing liquid is dispensed, the probe value will increase.
When the dosing liquid is dispensed, the probe value will decrease.

Probe value:
Real-time measurement ready by the probe.

Running Mode:
Auto: pump is in Auto mode
Dosing: pump is in Dosing mode

Pump status:
Running: the pump is operating under the mode selected
Stop: the pump is stopped
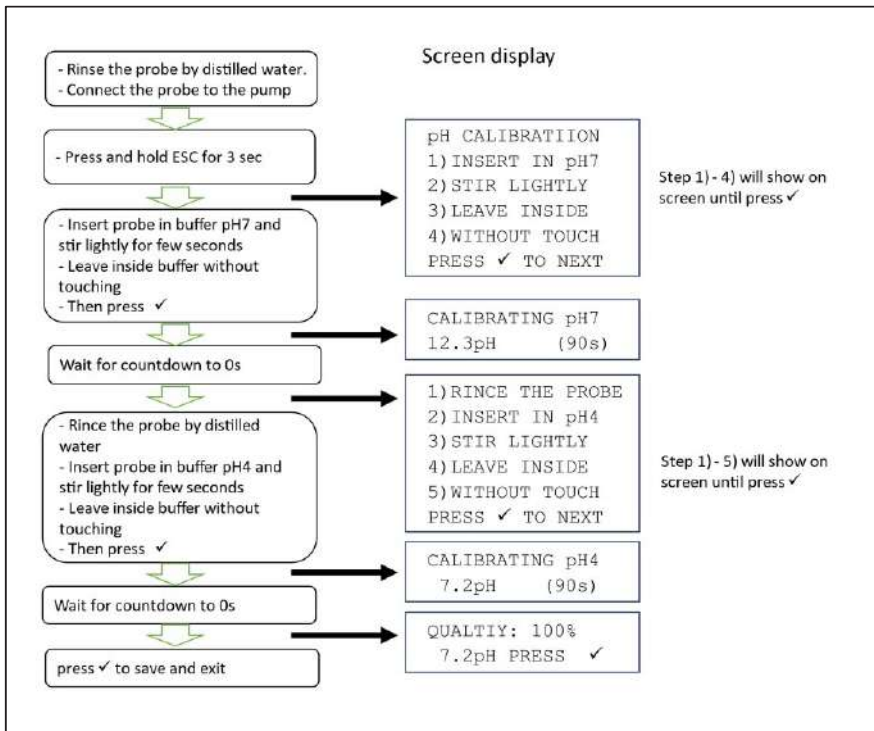Priming: the pump is in priming mode

Dosing rate:
Rate that the pump is dosing

3.2.3 Probe Calibration

DP300-X Probe calibration

Prepare buffer solution: pH 7 and pH 4. Use distilled water to clear the probe before calibrate.
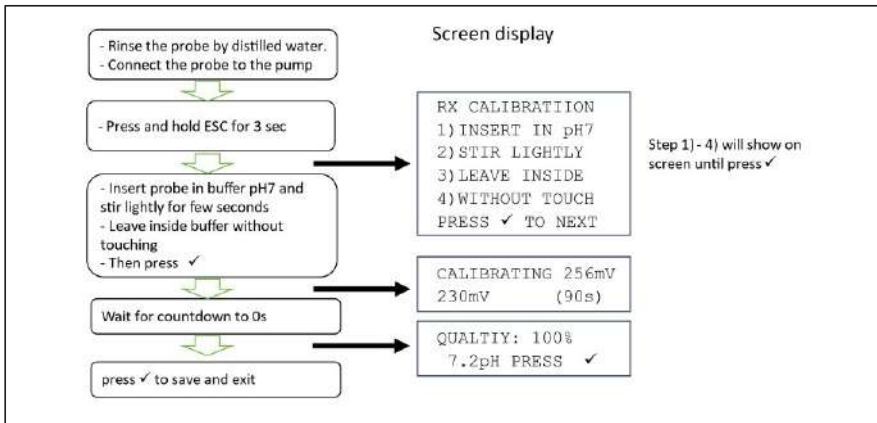
Make sure the correct probe (PH/ ORP) is connected to the pump. Press and hold ESC for 3 seconds to enter to calibration mode (press ESC to exit without saving). Follow instructions on screen to complete the calibration procedure.

PH probe calibration

When QUALITY is the relative life percentage of the probe, below 25%, the probe will be a calibration error, this means that the probe has to be replaced. There will be a calibration error if buffer solution is incorrect.

After calibration, put the probe into pH 10 buffer solution to test alarm concentration error.
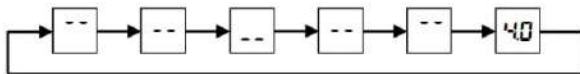
ORP calibration

DP300-PH Probe calibration

Prepare buffer solution: pH 7 and pH 4. Use distilled water to clean the probe before calibrate.

Make sure the correct pH probe is connected to the pump. Press and hold ESC for 3 seconds to enter to calibration mode (press ESC to exit without saving). Follow instructions on screen to complete the calibration procedure.

After enter to calibration mode:

1) " 7.0" will flashes on the screen.
2) Insert the probe into the pH 7 buffer solution and wait for at least 90 seconds so to let the probe stable.
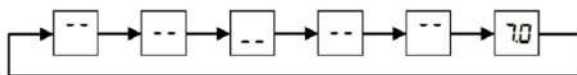3) Press " ✔ ", the display will show

Do not touch the probe until message "4.0" flashes.
(if Er appears, the calibration is failed. Press ESC to exist. Check the probe connect, clean the probe and restart calibration procedure again. If the calibration still fails, change the probe and recalibrate.)

4)Use distilled water to clean the probe, then Insert the probe into the pH 4 calibration solution and wait for at least 90 seconds.

5)Press " ✔ ", the display will show

Do not touch the probe until message "done" on the screen, Calibration press is done, press "" to save and exit calibration. (if Er appears, the calibration is failed. Press ESC to exist. Check the probe connect, clean the probe and restart calibration procedure again. If the calibration still fails, change the probe and recalibrate.)

DP300-ORP Probe calibration

Prepare buffer solution: 256mV. Use distilled water to clean the probe before calibrate.

Make sure the correct ORP probe is connected to the pump. Press and hold ESC for 3 seconds to enter to calibration mode (press ESC to exit without saving). Follow instructions on screen to complete the calibration procedure.

After enter to calibration mode:

1) " 256" will flashes on the screen.
2) Insert the probe into the 256mV buffer solution and wait for at least 90 seconds so to let the probe stable.
3) Press " ✔ ", the display will show

> Do not touch the probe until message "done" on the screen, Calibration press is done, press "" to save and exit calibration. (if Er appears, the calibration is failed. Press ESC to exist. Check the probe connect, clean the probe and restart calibration procedure again. If the calibration still fails, change the probe and recalibrate.)
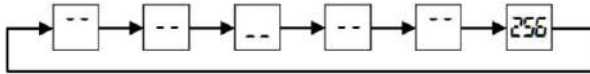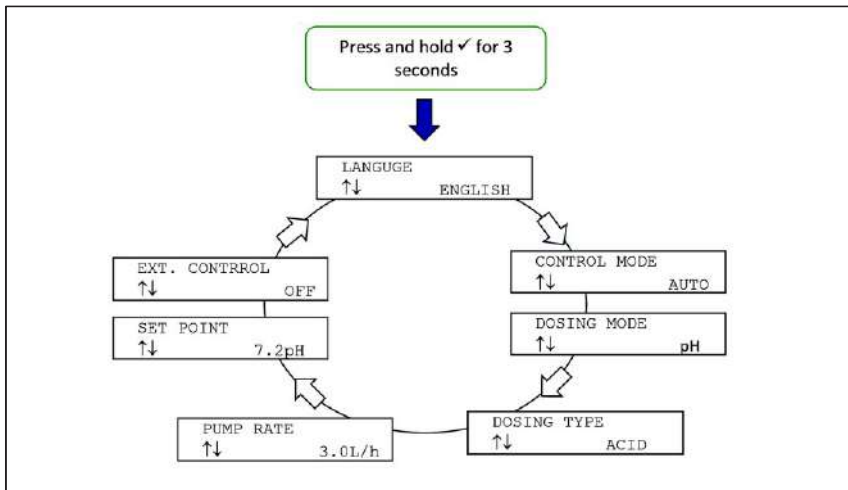
3.3 Setup menu

DP300-X, DP300-PH, DP300-ORP has two setup menu for basic and full setup.

3.3.1 Basic menu (Automatic mode)

Press and hold ✔ for 3 seconds will enter to basic menu. Basic menu is providing the basic setting for you to quick start the pump. Press ESC any time to exist and go back to operating mode without save.

DP300-X Basic menu
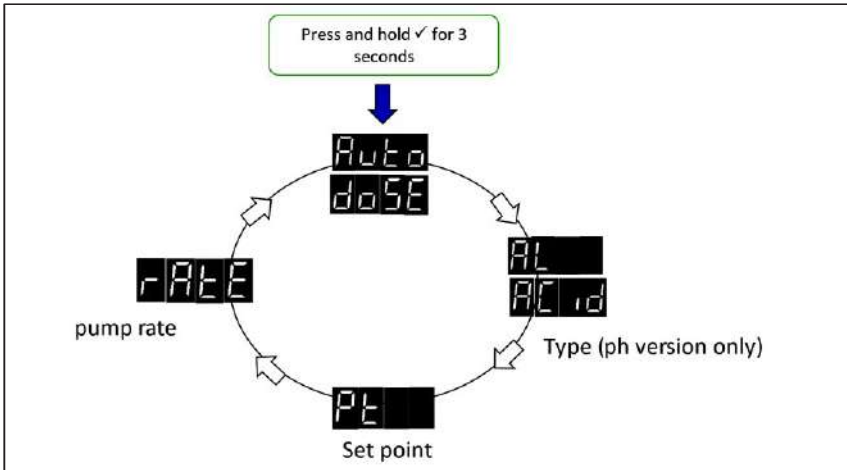
DP300-ORP/ DP300-PH Basic menu

3.3.2 Full menu

Press and hold ✔ + ↑ for 3 seconds will enter to full menu. Full menu allow for you to setup all functions of DP-X. Press ESC any time to exist and go back to operating mode without save.

DP300-X full menu

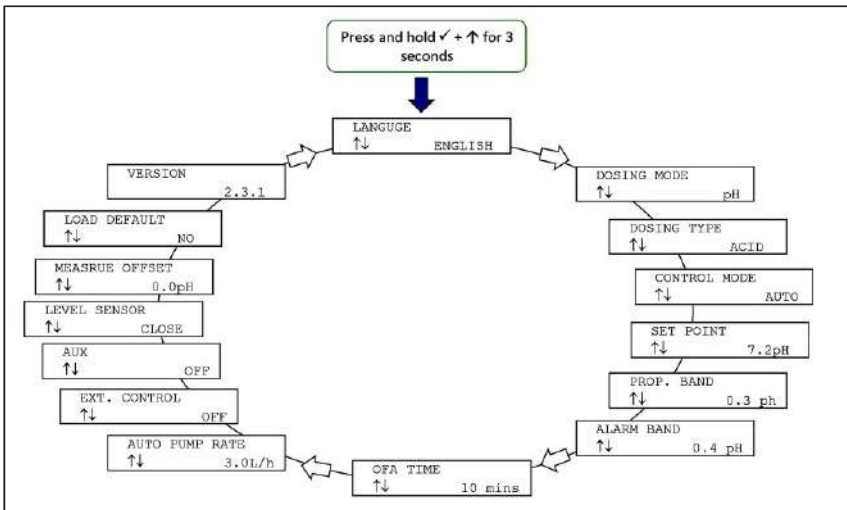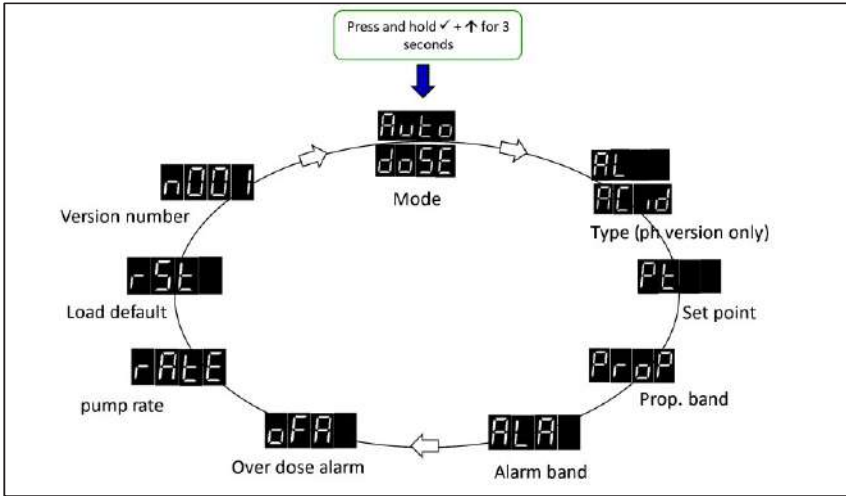## DP300-ORP/ DP300-PH Basic menu

LANGUGE
Language selection on display

DOSING MODE
To select between pH or ORP, it will change the measurement.

DOSING TYPE
If dosing mode is PH, the menu is allowed for you to choose either dosing acid or alkaline. In operating mode, arrow on screen will show the type by (alkaline) or (acid).
If dosing mode is ORP, the pump is allowed for oxidant only. The arrow on screen will show (oxidant)

CONTROL MODE
To select automation or rate dosing mode. AUTO is fully automatic dosing. DOSING is dosing by user setting.

SET POINT
The threshold points that the target control value.

PROP. BAND
The pump will reduce dosing rate by proportionally. So to minimize dosing and prevent over dose.

ALARM BAND
the pump will alarm if value is in alarm band range.

OFA TIME
Time that Continuous measure out of Alarm band to activate alarm. This can prevent trigger alarm when dosing manually.

PUMP RATE

User can select pump rate either 1.5L/ hour or 3L/ hour.

EXT. CONTROL

Allows the enabling/ disabling of the external control though voltage input corresponding to the enabling of the filtration pump. It is the input that corresponds to electrical terminals PMP (filtration pump connection).

AUX

To enable the AUX control function. It is electrical terminals AUX control.

LEVEL SENSOR

To enable LEVEL SENSOR function, user can select different type of level probe: open type or close type. Emaux level probe is close operation type. It is electrical terminals LEV control.

MEASURE OFFSET

Adjustment of the displayed value offset, Use to compensate offset of PH or REDOX probe reading. Caution: improper use of this parameter may result in erroneous dosing.

LOAD DEFAULT

Load the default setting for the pump

VERSION

Pump software version

| Function	Options	Default
LANGANGE	English, Francais, Espanol, Deutsh, Portuges	English
DOSING MODE	pH, ORP	ORP
DOSING TYPE	pH: ACID, ALKALINE; ORP: OXIDANT	pH: ACID; ORP:OCIDANT
CONTROL MODE	AUTO, DOSING	AUTO
SET POINT	pH: 6.0 – 9.0; ORP: 650mV-900mV	pH: 7.2; ORP: 740mV
PROP. BAND	pH: 0.0 – 2.0; ORP: 0-200 mV, 0 disable	pH: 0.5; ORP: 100mV
ALARM BAND	pH: 0.0 – 4.0; ORP: 0-1000 mV	pH: 2.0; ORP: 300mV
OFA TIME	0-60 minutes	20 minutes
PUMP RATE	3.0L/hour, 1.5L/hour	3L/hour
EXT. CONTROL	ON, OFF	OFF
AUX	ON, OFF	OFF
LEVEL SENSOR	CLOSE, OPEN, OFF	CLOSE
MEASURE OFFSET	pH: -1 to +1 (0.1 PH/ step); ORP: -100 to +100mV (10mV/step)	pH: 0; ORP: 0mV
LOAD DEFAULT	YES, NO	NO

Memory retainion

The pump will save the pervious stage before power off. User does not need to set the pump after power down.

3.4 Operation

Model	Power up delay	Priming	Auto	Dosing
DP300-X	✔	✔	✔	✔
DP300-ORP	✔	✔	✔	✔
DP300-PH	✔	✔	✔	✔
DP300	✘	✘	✘	✔

3.4.1 Power up delay

During power up, the pump will delay to dosing 90 sec for probe system stable before start dosing. Screen will show WAIT on screen.

```
↓ 12.3pH    3.0L/h
Auto    WAIT (90s)
```
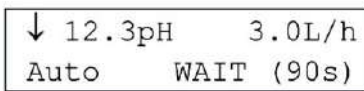
DP300-X

DP300-ORP/ DP300-PH

3.4.2 Priming

During the pump at STOP, user can press and hold ✔ + ⬆ for priming. Dosing rate would be maximum of the pump. (when AUX function is enabled, AUX will be turn on with priming)
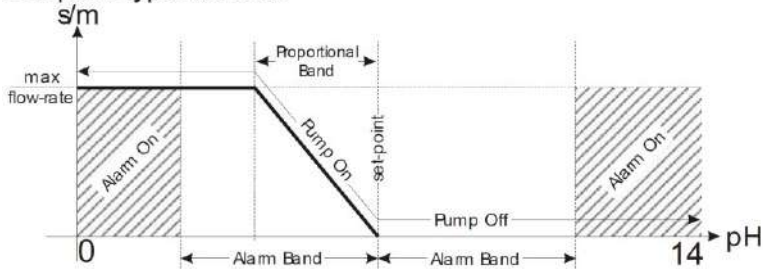
3.4.3 Auto mode

In auto mode, the pump will dosing by proportional dosing, The dosing rate decresase progressively as it approachs the setpoint. Proportional control is particularly useful to avoid overdosing in small pool.

Set-point type: acid
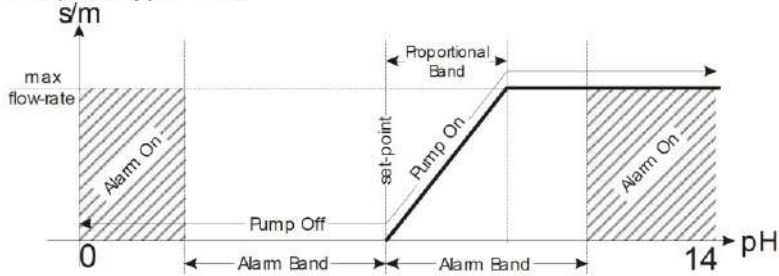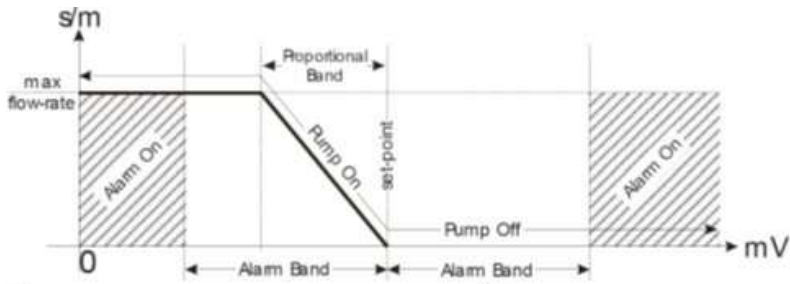

Set-point type: alkaline

Set-point type: oxidant

Set the dosing pump to Auto mode, then follow the procedure to setup:

1) Dosing type Setpoint proportional band and alolarm band.

2) Run the recirculation pump with both sensor in line at least 30 minutes to stabilize the sensor readings.

3) After 30 minutes, test the pH of the water , Adujst the dosing rate if necessary.

3.4.4 Dosing mode

Set the dosing pump to dosing mode, then following the procedure to setup:

1. Calculation the required dosing rate for your application.

2. Press power to switch the pump to run for an hour,

3. Stop the pump and check the parameter change whether same as your expected, adjust the dosing rate if necessary.

In Dosing mode, the dosing rate of the pump is controlled by the duty cycle. You can adjust the dosing rate by % of PUMP RATE.

- When PUMP RATE is 3.0L/hour, 80% of PUMP RATE is 2.4L/hour.
- When PUMP RATE is 1.5L/hour, 20% of PUMP RATE is 300mL/hour.
  (DP300 working at 3.0L/hr only)

Change dosing rate

- During in Dosing mode, press ↑ or ↓ can change dosing rate. If the dosing is "Stop", pump will run the updated dosing rate once start pump function. Otherwise, the pump will stop 15 seconds then run the updated dosing rate.

DP300-X

- In Dosing mode, dosing rate in % will show on the screen. Dosing rate can be change by press ↑ or ↓ .
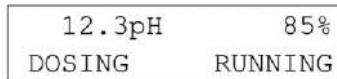
DP300-X Dosing mode screen

DP300-PRP/ DP300-PH

-In Dosing mode, press ↑ or ↓ , screen will switch to display dosing rate. Dosing rate can be change by press ↑ or ↓. Press ✓ , ESC or without key press for 5 seconds to exist the dosing rate screen and display pH/ ORP.

DP300 Dosing mode screen, 90%

DP300

Dosing rate can be change by press ↑ or ↓ .

3.5 General Maintenance

Check the chemical solution in the tank periodically to avoid the peristaltic pump from running dry. Even if this were to happen, no damage will occur to the pump. The level control sensor provided as a standard accessory will stop the pump in case of a low chemical level in the tank. However, it is still advisable to perform a systematic check to avoid a lack of chemical in the system.

To check for any tears or wear, inspect the pump hose every three months. Additionally, perform a periodic cleaning of the foot filter (DP300-X only) and injection valve (see next point). It is also advisable to check the status of screws and seals every three months or at the end of the season. The use of very aggressive or solid suspended chemicals may require more frequent inspections.

As mentioned earlier, the wetted parts should be maintained periodically using the most appropriate cleaning reagent. Considering the large number of chemicals available on the market, it is not possible to provide a general recommendation.

To test the sensors while they are installed, carefully add a small amount of white vinegar or dilute acid solution into the skimmer. After a few minutes:

The PH reading should decrease.
The ORP (Oxidation Reduction Potential) reading should increase.
If you do not observe any response or the response is slow, clean or replace the sensors as soon as possible.

ORP AND PH SENSOR CLEANING

The sensor tips must be kept clean and free from chemical deposits and contamination to function properly. Depending on the water quality and other facility-specific characteristics, the sensors may need to be cleaned on a weekly or monthly basis after being saturated in pool or spa water. Slow response and inconsistent readings are signs that the sensors require cleaning.

To clean a sensor, carefully remove it from the compression fitting. Clean the tip of the sensor with a mild liquid detergent (such as Joy) solution. Rinse with fresh water and soak the sensor in a mild acid solution for five minutes. Rinse with fresh water and reinstall the sensor.

SENSOR REPLACEMENT

For optimum controller performance, always use Emaux replacement sensors. For preventive maintenance, it is also recommended to replace the sensors on an annual basis or as their performance diminishes.

SENSOR STORAGE

Extended exposure to atmosPHeric conditions will cause the ORP and pH sensor tips to dry out.

Always remove and properly store the sensors if the pool or spa is to be winterized or inactive. Store the sensors with the original cap provided, making sure that each cap is filled with the original storage solution or salt water. If the storage containers have been misplaced, store the sensors individually in small glass or plastic containers with clean water covering the sensor tips.
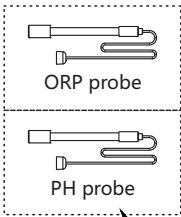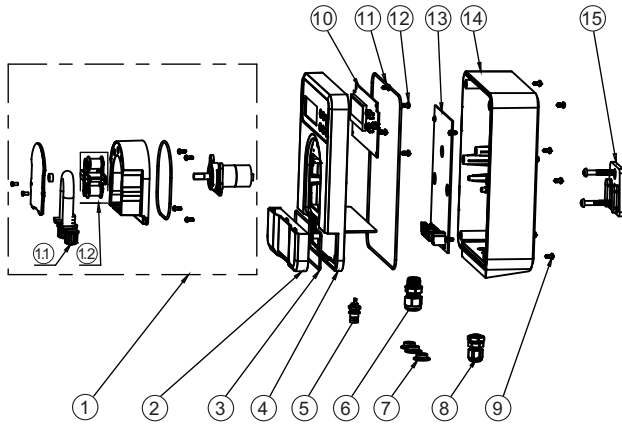
WINTERIZING

The sensors should be prepared for storage as outlined above and protected from freezing. Although the controller is designed to withstand a broad temperature range, winter storage in a secure location at normal room temperature is recommended.

4. TROUBLESHOOTING

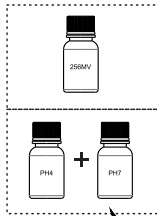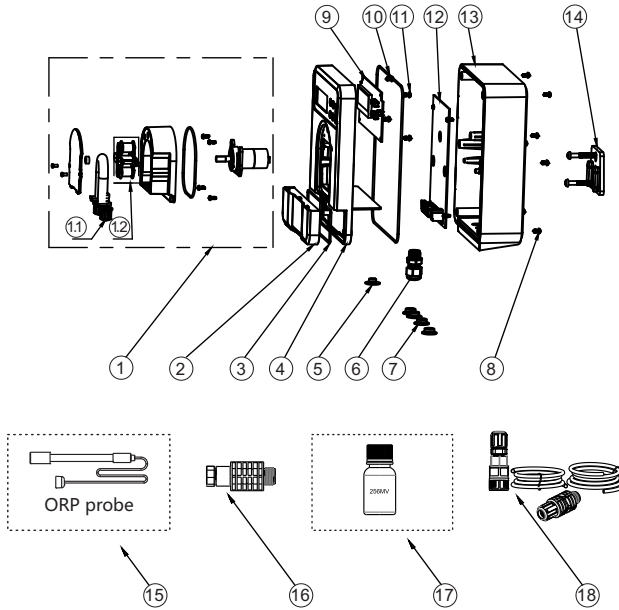| Issue	POSSIBLE CAUSE	SOLUTION
Tubing but additive is s not being injected	1. Tubing is swollen 2. Tube is blocked 3. Valve is blocked	1. Check the integrity of the peristaltic pump tubing 2. Check for clogging of the filter 3. Verify that the injection valve is not blocked
Measure is not correct	1. Calibration is incorrect 2. Probe not function properly	1. Check the probe position to make sure fully in water. 2. Run calibration the probe 3. If measurement is incorrect, replace a new probe
The pump is not turn on	No power	1. Check the circuit breaker. Connected to functional grounding-type GFCI protected power source 2. Check internal fuse 3. Power switch on the bottom is on.
No checkical dosing	Auto mode: setup is incorrect	1. Check setpoint and measure value. 2. Check dosing type

5. SPARE PARTS LIST

DP300-X

Key No.	Part No.	Description	Piece(s) Required
1	E130101	Pump body kit	1
1.1	E130102	Hose kit	1
1.2	E130103	Drive bracket kit	1
2	4205916005	Wiring cover for DP	1
3	5100510338	Face cover for DP	1
4	111040097	O-Ring for Wiring cover	1
5	1062610401	BNC connect	1
6	106234778	Cable lock code PGB9	1
7	111040100	plug D19x9.6x6	4
8	106234332	Cable lock code PGB7	1
9	112232743	Screw M3X8	11
10	104130033	Button electronic board for PRO	1
11	111040099	O-Ring for cover	1
12	104130038	Screw M2.2X8	9
13	104130038	Control electronic board for ORP	1
	104130042	Control electronic board for pH	1
14	5100410338	box	1
15	540200008	Wall mount holder with screw	1
16	106090074	ORP probe	1
	106090073	pH probe	1
17	106090075	Probe holder	1
18	1090010392	256 buffer solution for ORP	1
	109007168	pH4.0 and pH 7.0 ,30 ml for pH	1
19	87990306	Dosing pipe fitting	1
20	104130040	water level switch	1

DP300-ORP

ORP probe

Key No.	Part No.	Description	Piece(s) Required
1	E130101	Pump body kit	1
1.1	E130102	Hose kit	1
1.2	E130103	Drive bracket kit	1
2	4205916005	Wiring cover for DP	1
3	5100510338	Face cover for DP	1
4	111040097	O-Ring for Wiring cover	1
5	1062610401	BNC connect	1
6	106234778	Cable lock code PGB9	1
7	111040100	plug	4
8	112232743	Screw M3X8	11
9	104130041	Button electronic board for Plus	1
10	111040099	O-Ring for cover	1
11	104130038	Screw M2.2X8	9
12	104130043	Control electronic board for Plus	1
13	5100410338	box	1
14	540200008	Wall mount holder with screw	1
15	106090074	ORP probe	1
16	106090075	Probe holder	1
17	1090010392	256 buffer solution for ORP	1
18	87990306	Dosing pipe fitting	1

DP300-PH

PH probe

Key No.	Part No.	Description	Piece(s) Required
1	E130101	Pump body kit	1
1.1	E130102	Hose kit	1
1.2	E130103	Drive bracket kit	1
2	4205916005	Wiring cover for DP	1
3	5100510338	Face cover for DP	1
4	111040097	O-Ring for Wiring cover	1
5	1062610401	BNC connect	1
6	106234778	Cable lock code PGB9	1
7	111040100	plug	4
8	112232743	Screw M3X8	11
9	104130041	Button electronic board for Plus	1
10	111040099	O-Ring for cover	1
11	104130038	Screw M2.2X8	9
12	104130044	Control electronic board for DP300-PH	1
13	5100410338	box	1
14	540200008	Wall mount holder with screw	1
15	106090073	pH probe	1
16	106090075	Probe holder	1
17	109007168	pH4.0 and pH 7.0 ,30 ml for PH	1
18	87990306	Dosing pipe fitting	1
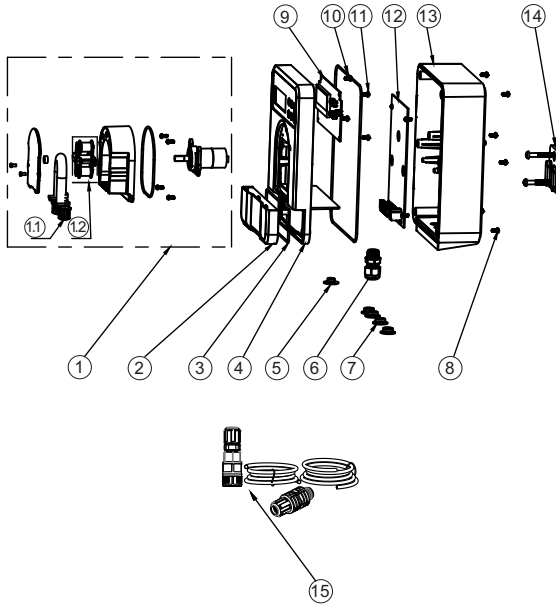
DP300

Key No.	Part No.	Description	Piece(s) Required
1	E130101	Pump body kit	1
1.1	E130102	Hose kit	1
1.2	E130103	Drive bracket kit	1
2	4205916005	Wiring cover for DP	1
3	5100510338	Face cover for DP	1
4	111040097	O-Ring for Wiring cover	1
5	111040102	O-Ring for BNC	1
6	106234778	Cable lock code PGB9	1
7	111040100	plug	4
8	112232743	Screw M3X8	11
9	104130041	Button electronic board for Plus	1
10	111040099	O-Ring for cover	1
11	104130038	Screw M2.2X8	9
12	104130045	Control electronic board for DP300	1
13	5100410338	box	1
14	540200008	Wall mount holder with screw	1
15	87990306	Dosing pipe fitting	1

6. TERMS OF THE WARRANTY

As original purchaser of this equipment have purchased from Emaux Water Technology Co Ltd, through Authorized International Distributor or Dealer, warrants its products free from defects in materials and workmanship under normal use during warranty period. The warranty period begins on the day of purchase and extends only to the original purchaser. It is not transferable to anyone who subsequently purchases the product from you. It excludes all expendable parts. During the warranty period, Emaux authorized reseller will repair or replace defective parts with new parts or, at the option of Emaux, serviceable used parts that are equivalent or superior to new parts in performance. This Limited Warranty extends only to products purchased from Emaux authorized reseller. This Limited Warranty does not extend to any product that has been damaged or rendered defective

(a) as a result of accident, misuse or abuse;
(b) as a result of an act of God;
(c) by operation outside the usage parameters stated herein;
(d) by the use of parts not manufactured or sold by Emaux;
(e) by modification of the product;
(f) as a result of war or terrorist attack; or
(g) as a result of service by anyone other than Emaux authorized reseller or authorized agent.

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EMAUX WATER TECHNOLOGY CO., LTD
ADDRESS FLAT A-D, 20/F., KAI BO 22, 22 WING KIN ROAD,
KWAI CHUNG, HONG KONG
PHONE +852 2832 9880

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