

P4 CLOUD DOSING PUMP

USER MANUAL



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Product Information

Introduction

The D-D P4 Cloud is a 4-channel intelligent dosing pump with WIFI control. This unit will allow the automated addition of liquid additives and elements in an accurate, controlled manor to your aquarium. In a reef aquarium regular dosing of elements such as Calcium, Magnesium, KH buffers and trace elements set to the needs of the aquarium will help produce a stable environment. This will support water quality and enhance coral growth.

The D-D DDP4 uses standard Kamoer pump heads with quality Pharmed long life pump tubing.

Product features

- Compact space saving design, 250Lx90Wx70H mm including pump heads.
- Kamoer standard pump heads.
- Pharmed BPT pump tube offers long life, heat resistance, acid/alkali resistance and ozone/UV resistance.
- Up to 24 dosing plans per day per channel, 1-99 day cycle dosing per channel or specified weekly dosing per channel.
- Each channel can be individually calibrated.
- D-D P4 has a real-time clock and will automatically run according to the APP setting parameters. In the case of power loss, the dosing pump setting parameters are retained.
- The Kamoer Remote App supports iOS and Android to control the dosing pump through WIFI. The D-D P4 firmware can be updated via the APP.
- Requires 2.4G WiFi connection.

Unpacking

Please check for delivery damage before unpacking.

Once opened, please inspect the product for any visible damage and check all parts are included. If any defects are found when unpacking, please contact your retailer immediately.

Box Contents

- D-D P4 Dosing pump body.
- 12v DC power adapter.
- Plastic measuring cylinder.
- 4 x 2m lengths of coloured hose.
- Tube holder.
- 8 x Tube connectors

Product Layout



- 1.Pump head (Counter clockwise rotation)
- 2.Outlet
- 3. Inlet
- 4. WIFI status indicator (Red)
- 5. Power indicator (Green)
- 6. Reset button (Reset)
- 7. CAN communication interface (for future development)
- 8. Power input (DC 12V)



Indicator	Status Description			
	On	Connected to the Cloud via router		
	Off	Disconnected from the router		
Status indicator Red	Fast Flashing	Pump is in configuration mode		
	Slow Flashing	Disconnected from the Cloud (Will also show when unit is initially powered up)		
Power indicator	On	Unit is powered up normally		
Green	Off	No power to unit		

Installation

Positioning the pump

The dosing pump is a self-priming pump. When there is big difference between the inlet and the outlet height, siphoning may occur. In order to avoid siphoning, the dosing pump should be placed in a position to ensure that the height difference between the inlet and the outlet is within 0.5m.

The inlet tube should be as short as possible, and the outlet tube should not be submerged.

Coloured tubes are provided. Extra lengths of these are available as an optional extra (Part code DDCT01).

Please carefully check that the inlet and outlet tube connections are correct on the pump head and that the hoses are pushed fully onto connections before installation. Please note the pump heads on the doser can be removed and rotated, to do this press the blue tabs on the side of the head and carefully pull the head away from the pump. The head can then be repositioned and pushed back in to place.

The pump should be secured into place or installed in a stable location not above open water or very humid environments. A specially designed mounting bracket is available as an optional extra for secure fixing (Part code DDP4BK).

Installing the App

Scan the QR code on quick start leaflet included with the pump and download the app corresponding to the **icon below.**



IOS



Android

Apple users visit the Apple the App Store, Android users visit the Google Play store, search for "Kamoer Remote", find the app download of the corresponding icon.

Kamoer Remote App supports Android 4.4 and above and supports iOS 9.1 and above.

Register your Cloud Account

You will need to register an account and login on the Kamoer remote app before using your dosing pump. Choose to register via E-mail or mobile then follow the onscreen instructions to complete registration and login.

sername	~
assword	۲
Login	
]	Reset password
	Login

Please select the type of account you want to register
Register your phone
Register by Email
Cancel
≡ □ <

Connect the Dosing pump to the Cloud

Make sure your mobile device is connected to your home network, the location services on the mobile device are enabled and that the Kamoer Remote app permissions are set correctly from your mobile devices settings page.

Please note the device does not support 5G Wi-Fi and cannot use a 5G Wi-Fi hotspot. If your internet supplier's router is running a mixed mode 2.4ghz/5ghz Wi-Fi network please check their online instructions, website or support forum to de-synchronise the bands into two separate 2.4 and 5ghz networks before attempting to connect the pump.

Connect the power supply to the DC 12v socket on the side of the dosing pump and plug in to a mains power source

After the dosing pump is turned on for the first time, the status indicator (red light) will flash slowly and the power indicator (Green) should be on. At this time you need to use the Kamoer Remote App to connect the dosing pump through the wireless router to the cloud.

Open the App, click the '+' button in the upper right corner of the device to add the device.

Under the D-D H2Ocean heading Select "P4 Dosing pump" in the list of supported devices.



Enter you 2.4G Wifi network password and then when prompted tap next.

Press and hold the reset button on the right panel side of the dosing pump. When the red status indicator flashes twice, and the buzzer sounds twice, release the button immediately.

Wait another 3 seconds. The red status indicator will then start to flash rapidly. The device enters configuration mode.

When the dosing pump is in configuration mode, click "indicator blinking" on the App to start the connection. This may take a few moments.

After the connection is successful, the App will confirm the successful connection and the status light on the dosing pump will show solid red.

At this point the dosing pump is connected to the cloud and the dosing program can be set via the app.

Programming the dosing pump

To Program the dosing pump, open the Kamoer Remote App, and select the device you want to program from the available devices list.

With the device selected the main plan page will be displayed. This shows the four individual pump heads and their associated dosing plans. At this stage, as there are no programs set "no plan added" will appear under each pump heading.

When set the volume of available dosing solution will also be displayed here for each pump.

The default names for the Pump heads are set to Pump 1 - 4 these can be changed to indicate the solution they are adding, see the settings chapter in this manual.

From this page the individual pump heads can also be turned off using the blue toggle associated with each pump head. This way the dosing plan can be stopped without having to delete the set plan and then restarted, when required, by setting the toggle to on.

41 🗢	13:23	1 92% 🔳	я н	13:23	92%
0	Device	⊕ ⊕	<	Plan	
DP_5xxo			Pump 1		C
On-line			No plan a	dded	
			Pump 2		C
			No plan a	dded	
			Pump 3		C
			No plan a	idded	
			Pump 4		C
			No plan a	dded	
				Manual	Settings

Setting the Dosing Plans

To set the dosing plan select the pump head you want to programme by tapping on it. This will open the plan page for that pump head.

Tap on 'Cycle time' and choose if you want to set up the schedule dosing frequency 'By Days' or 'Weekly'

'By Days' will set the pump to dose every 'X' days, e.g. every 3 days. This can be set from every 1 day to a maximum of every 99 days.

'Weekly' will allow you to choose the days of the week that you want to dose, e.g. Monday, Wednesday and Friday.

al 🗢 14:32	87% 📖)	al 🗢	14:32	87%
Cancel Weekly	Save	Cancel	By days	Save
Sunday	0			
Monday	0			
Tuesday	0			
Wednesday	0			
Thursday	0			
riday	0			
Saturday	0			
			2	
			3 day(s)	
			4	
			15	

When you have chosen the frequency tap 'Save' in the top right hand corner.

To set the dosing volume tap on the '+' button in the top right corner. Then set the name of the dosing plan and the time period to dose. It is factory set from 00:00 to 23:59 so that the dosing volume will be added throughout the full day, it can set to dose for a limited period e.g. between 10:00 and 18:00. Once the times have been set tap 'Save' in the top right corner.

Select the 'Quick Add' tab. Enter the total amount that you would like to dose during the period selected in the previous step and how many times to split that dose. For example, if the 'Total add' is set to 10ml and the 'Add times' to 24 the pump would automatically split a 10ml dose in to 24 smaller doses throughout the set period.

The number of times the dose can be split will be determined by the overall time period set for the plan and the total volume to be dosed.

By tapping on the Eye logo next to the save button a detailed plan preview will be shown based on the 'Add times' and 'Total add' figures. This will show when the pump will run and how much it will add on each dose.

From here set the Anti-chemical interference can also be set. This prevents two or more channels dosing at the same time. The time set in here will delay the automatically calculated program for that channel.

For example, if the first two channels are set to dose 10ml, between 12:00 and 23:00, over 8 doses with the chemical interference set to '0'. Both enter the first dose at 12:00 at the same time. They will then continue to dose at exactly the same time throughout the day until they complete their program. If the chemical interference is set to '0' on the first channel and '3' on the second, the first channel will run as described above but the second channel will start its first dose at 12:03 and then continue with an automatically programmed 3 minutes delay on every dose.

ul 🜩	14:40	86% 🗰)-	÷ III.	15:18	1 84% 🛤
Cancel	Add Group	Save	Cancel	Quick Add	 Save
Name		>	Add Times		1>
Time	00	0:00-23:59 >	Total Add		10.0 ml >
			Single add: 10.0	mi	
			Anti-chemical	interference	5 min >

When finished tap 'Save' in the top right corner to store the plan.

Finally set the amount of dosing solution available by tapping the 'Set' button. This gives a real time view of how much and how many days of dosing solution are available. When the dosing solution is low the icon will change to yellow.

The plan page for the pump head programmed will now show the completed settings.

∥	14:18 Pump 1	(88%)	.⊪. ≑ <	15:34 Pump 1	83%
Total:200.0ml	i	Set	Total:20	0.0ml	Set
100.0%	Day left		100.0%	20 Day left	
E	nter total volume(ml)		200.0ml 10.0ml	
O Ca	incet C)k >	0	time Every 3 days te today run plans	>
			Normal		
			© 00:0	0 ~ 23:59	
Glick	"+"to add a plan	group.	I≡ 24 plans	ali 10.0ml	~
1	2	3			
1 4	2 ***C 5	3 05# 6 MNO			
4	ABC 5	6			

Repeat the above steps to set other three pump heads.

In the example below Pump 1 has been set to dose every three days a total of 10ml, over 24 smaller doses, between 00:00 and 23:59. The dosing container has 999.6ml of solution left in it and should therefore last approximately 99 days.

al 🗢	16:25	1 80% 🗩	at	Ŷ	16:09	81% 🔳,
<	Pump 1	+	<		Plan	
Total:1000.0ml	y left	Set		Imp 1	•	
999.6ml				ily add 10 Every 3 days E		99 days
O Cycle time Ev		>		ımp 2		
Execute today run	i plans	_	No	plan added		
Normal ② 00:00 ~ 23:	:59	_	Pu	ımp 3		
≣ 24 plans di 10.0	ml	~	No	plan added		
			Pu	ımp 4		
			No) plan added		
				Plan	الل Manual	کی Settings

Advanced Plan adjustments

When a plan has been created advanced manual adjustments can be made.

Open the app, choose the device then select the pump in the plan page. Tap on the blue arrow icon at the bottom right corner of the plan group and a detailed breakdown will appear. This shows the individual plan points and associated dosing volumes.



The time and volume of each individual plan point can be adjusted. Tap on the plan point and then adjust the time and dose amount as required, select 'Save' to confirm the change.

It is only possible to set a time within the period set for the plan group. Plan points will always be displayed in time order. If two points are set at the same time both doses will be performed together. For example, a 1ml and 2ml plan set at the same time will result in the pump dosing 3ml.

Any chemical interference will be overwritten for a plan point if the time is changed. This makes it possible dose at the same time as another pump.

Changing the dosing amount will alter the overall dose for that plan group. This is automatically calculated within the app and displayed at the top of the pump page.

al 🗢	09:51	87% 🔳	al 🗢	09:51	87% 🔳>	al 🗢	09:50	87% 🔳
<	Pump 2	+	Cancel	Edit Plan	Save	<	Pump 2	+
Plan B						Total:200	0ml	Set
© 00:00 ~	23:59		Start Time		00:05 >			Out
≣ 12 plans di	15.0ml	^	Add		1.3 ml >	100.0%	13 Day left	
00:05	ılı 1.3ml				_		200.0ml 15.0ml	
0 02:05	ılı 1.3ml						<u> </u>	
O 04:05	ılı 1.3ml					Cycle	time Every 7 days	>
04.05		_				Execute	today run plans	
06:05	ılı 1.3ml					Plan B		
O 08:05	ılı 1.3ml						~ 23:59	
0 10:05	ılı 1.3ml					≣ 12 plans	ılı 15.0ml	~
0 10.00	in norm	_						
O 12:05	ılı 1.2ml							
Ø 14:05	di 1.2ml							
Ø 16:05	di 1.2ml	_						
0 18:05	ılı 1.2ml							

The plan group name and time can be altered by tapping on the plan group and then entering the new name or time as required. Select 'Save' to confirm the changes. The individual plan points will not be changed by doing this. If the plan points fall outside the new time set for the plan group they will have to be manually changed as described in this manual. To alter the plan points with the plan group period it is best to delete the existing Group plan by swiping the plan to the left and set up a new one as described in this manual.

Pump 2 + Total 200.0ml Sot 13 Day left 200.0ml Somi wr Remain O Daily add Cycle time Every 7 days Benain O Daily add Concel Every 7 days Benain O Daily add Time O O Cycle time Every 7 days Benain O Cycle time Every 7 days Benain O Cycle time Every 7 days Benain O D	Save > 0:00-23:59 >
Name 13 Day left 200.0ml 15.0ml Wir Remain © Daaly add C Cycle time Every 7 days Execute today run plans > VF0m B © 00:00 ~ 23:59	
13 _{Day left} Time 00 200.0ml 15.0ml Time 00 Image: Second soday run plans	
200.0ml 15.0ml w Remain ∂ Daily add C Cycle time Every 7 days Everate today run plans Plan B © 00:00 ~ 23:59	
Ordel time Every 7 days Execute today run plans APBin B 𝔅 00:00 ~ 23:59	
Execute today run plans →	
C1 Execute today run plans →	
Execute today run plans Pfan B 0 00:00 ~ 23:59	
00:00 ~ 23:59	
00:00 ~ 23:59	
i= 12 plans di 15.0ml	

Plan points can be added to an existing group by selecting 'Add a plan' in the pump page. Enter the time for the additional plan point, the amount to be dosed and tap 'Save'. This will add to the total volume being dosed by that plan group and will be shown on the pump page. Any chemical interference set will be ignored by this point. The number of plan points available for each group will be determined by the overall time set for that group.

al 🗢	09:50	87%	-ai 🗢	09:53	87% 🔳>	su 🗢	09:53	87% 🔳
<	Pump 2	+	<	Pump 2	+	Cancel	Add a Plan	Save
Total:200.0ml		Set	0 02:05	ılı 1.3ml				
13	Day left		Ø 04:05	ili 1.3ml		Start Time		09:53 >
200.0			0 06:05	ılı 1.3ml		Add		10.0 ml >
	÷ ,	_	Ø 08:05	di 1.3ml				
O Cycle time Execute today	Every 7 days	>	0 10:05	ılı 1.3ml				
Plan B			Ø 12:05	ılı 1.2ml				
00:00 ~ 2		\cap	0 14:05	ılı 1.2ml				
E 12 plans di 19	b.0ml	\odot	Ø 16:05	ılı 1.2ml				
			Ø 18:05	ılı 1.2ml				
			0 20:05	dı 1.2ml				
			0 22:05	ılı 1.2ml				
			Add a Pla	an O Quick A	dd			

Plan groups and plan points can easily be deleted by swiping them to the left. When a plan point is deleted it will remove the volume of that dose from the overall group. The adjusted volume will be shown at the top of the pump page.

I	09:55	87%	⇒ lin	10:39	79%	⇒ lin	15:00	65%
<	Pump 2	+	<	Pump 1	+	<	Pump 1	+
Total:200.	Dml	Set	Total:200.0)ml	Set	Total:80.1ml		Set
•	13 Day left	_		1	_		Day left	
100.0%			40.1%	Day left		100.0%		
	200.0ml 15.0ml ⇒ Remain () Daily add			0.1ml 20.0ml			.1ml 10.0ml	
	S Remain () Daily add			Premain O Daily add			Nemain O Daily and	
Cvcle t	ime Every 7 days		Cycle ti	me Every 1 day		Cycle tim	e Every1day	
61	today run plans	>	6	today run plans	>	61	day run plans	
			test			test		
0 ~ 23:5	9	Delete	0 00:00	~ 23:59		© 00:00 -	23:59	
s ili 15.0ml			E 2 plans		^	i≡ 1 plans		^
		_	© 10:29	ılı 10.0ml		O 10:29	di 10.0r	nl
			0 10.25	11 10.011	_	0 10.20	10.01	
			36	ılı 10.0ml	Delete	Add a	Plan	Quick Add
			G Add a	Blan 0.0	uick Add			
			Addre		dick Add			

To reset all the plan points in a group, select the 'Quick add' tab associated with that plan group. The dosing amount, times and chemical interference can then be adjusted. Tap 'Save' to confirm the changes. Once saved any existing plan points for that group will be overwritten.

Ŷ	15:00	65% 🔳 >	-al 🗢	09:54	87% 🔳)	al 🗢	15:09	64%
	Pump 1	+	Cancel	Quick Add	Save	Cancel	Quick Add	Save
Total:80.1ml		Set	Add Times		1 >	Add Times		1 >
100.0%	Day left		Total Add		10.0 ml >	Total Add		10.0 ml >
80	1ml 10.0ml Remain 🖒 Daily add		Single add: 10.0n	ul.		Single add: 10.0	nl	
O Cycle tim	e Every 1 day	>	Anti-chemical	interference	5 min >	Anti-chemical	interference	5 min >
	day run plans	· ·	All	plans in the group w replaced after savin	ill be g.			
est				No longer Prompt				
00:00 ~				Ok				
1 plans	i 10.0ml	^		UK				
0.29	11 10.0111							
Add a l	Plan Q	uick Add						

Multiple plan groups can be added to the same pump. This will allow different plans to be set in a single day. To add a plan group, tap on the '+' symbol, enter the group name and time, then tap 'Save'. The new plan group will then be displayed in the pump page along with the other group(s) already set. Plan points can then be added using the 'Add a plan' or 'Quick Add' tabs as described in this user guide. Plan groups can overlap, any plan points that are set to the same time in different

groups will be dosed at the same time. For example, if a dose of 1ml in plan A and a dose of 2ml in plan B are set for the same time the pump will dose 3ml in total.

• 15:16 633() • Pump 1 +	Cancel	10:05 84% Add Group Save	ul ♥ 10:05 く Pump 1	84%
Total:200.0ml Set	Name Time	> 00:00-23:59 >	Total:200.0ml	Set
200.0ml 10.0ml Ical Remain 🖒 Daily add			200.0ml 15.0n Ital Remain 🖒 Dai	
Cycle time Every 1 day > Execute today run plans			Cycle time Every 1 day Execute today run plans	>
ay 0 08:00 ~ 19:59			Day © 08:00 ~ 19:59	
6 plans di 10.0ml 🗸			≅ 6 plans ⊮ 10.0ml Night	~
			© 20:00 ~ 23:59	
			IE 4 plans di 5.0ml	~

Manual addition

The pump can be used to add a manual dose if required.

To achieve this open the app and select the device you want to program from the available devices list.

In the 'Plan' page tap the 'Manual' icon at the bottom middle of the screen. This will open the manual settings page.

al 🗢	13:23	4 92%	uli 🗢 22 :	31 581
0	Device		< Pla	in
DP_5xxo			Pump 1	C
On-line)		No plan added	
			Pump 2	C
			No plan added	
			Pump 3	
			No plan added	
			Pump 4	
			No plan added	

Tap on the pump that you would like to set a manual dose for and enter the amount of liquid you would like to add.

The pump should now show the amount set for the manual dose.

Tap the corresponding 'Start' button on the right and the pump will run. The value showing the amount chosen to add will decrease as the pump runs until it reaches zero at which point the specified addition has been made.

If you want to stop the manual dose tap the 'Start' button (that will now be displaying 'Stop') again to cancel the operation. There is a lag when pressing the stop button so this should not be used as a method to stop the pump at an exact point. For accurate additions program the amount required and let the pump complete its program.

	58% 📼 🗅	ati 🗢	22:31 Manual	58
Pump 1 1.0ml	Start	Pump 1 1.0ml		Start
^{2ump 2} 100.0ml	Start	Pump 100	Enter volume (ml) DK
^{tump 3} 100.0ml	Start	Pump 3 100.0ml	L.	Start
Pump 4		Pump 4		-
100.0ml	Start	1	2 ABC	3
		4	5 	6 MNO
		7 PORS	8	9 wxyz
□ 也	Ø		0	8

Calibration

When the Dosing pump is initially set up, pump heads have been replaced, or if the unit has been in service for a period of time it is worth calibrating pump heads to ensure accuracy.

To calibrate open the app and select the device you want to calibrate from the available devices list. Tap the 'Settings' icon located at the bottom right of the 'Plan' page.

Select 'Flow Calibration' from the list and then choose the pump head to calibrate.

• •	13:23 Device	1 92% ■> () () () () () () () () () ()	uti ବ 22:31 58%∎) < Plan	ul ♥ 22:32 < Settings	58%
DP_5xxo On-line			Pump 1	5xxx0luAgo(88895% Current Version : C Firmware Version :	DP4-1.0.1
			Pump 2	Name 5xx	oluA garraaxxx >
\smile			No plan added	Serial Number	>
				Update Firmware	No Update
			Pump 3	Time Setting	>
			No plan added	Connect to Controller	>
			Pump 4	Flow Calibration	>
			No plan added	Factory Settings Reset	>
				Remove Device	
				٣	0

Make sure the inlet hose for the pump is submerged and that the outlet hose is directed into a suitable collection container.

Tap on 'Start Emptying' to prime the pump head and hose. Once all air has been expelled and the line is fully primed tap 'Emptying, click to stop'.

Move the outlet hose into a suitable measuring cylinder.

Set the time for pump calibration by selecting 'Add time' and scrolling through to the desired time. This can be set up to 60 seconds. For increased accuracy, a longer calibration time is best. Please be aware the measuring cylinder needs to be large enough to hold the volume of the water for the calibration. For normal calibration, a time of 10-15 seconds is advised.

<	22:32 Flow Calibration Pump 1	58%. D	.ul ≑	22:32 Flow Calibration	57%
	ump tube inlet into the water contail ng", welt until the water fills the ent			mp tube inlet imp the water contain g1, wait until the water firls the en	
Start empty	ing	_	Start empty	ng	
	cump tube cutlet into the empty cyli and click "Add start". The meter co cutput.			ump table carifiet into the empty cyl enn c lok "Admistart". The meter co output.	
Add time		10s >	Add time		
Add start			Azid start		
	vinder volume and click "Calibration he calibration.	i Complete"	3 Critice line on to complete th	lintor volume and click "Calibra fa in calibration.	n Camp of (*
	he calibration.	ı Complete"		er nef hration.	n Campiolit ⁴
to complete I	he calibration.	i Complete"	to complete ti	er nef hration.	n Camp clu ⁴
to complete t	he calibration.	r Complete"	to complete th Enter volum	er nef hration.	
to complete t	he calibration. Ne	i Campleto"	to complete th Enter volum	er nef hration.	
to complete t	he calibration. Ne	i Completo"	to complete th Enter volum	er om forstern.	

Tap on 'Add start' and the pump will run for the time selected in the previous step.

Once the pump has stopped remove the outlet hose from the measuring cylinder and stand the measuring cylinder on a flat surface. Use the scale on the side to determine the volume of liquid.

Enter the volume of liquid collected in ml by tapping in the space next to "Enter volume".

Select calibration complete at the bottom of the page and the pump will calculate the flow rate from the time and volume you have entered. The chosen pump head is now calibrated.

<	22:33 Flow Calibration Pumo 1	57% 🔳 🔾	tl <	22:3 Flow Cali Fundamental	bration
	ing", wait until the water fills th			the pump tube inlet into t motying', wait until the w	he water container, click ater fills the entire line and
Start empty	ying		click to	stop.	
	pump tube cutlet into the empt and click "Add start". The met		Start e	emptying	
titrated wate	r cutput.		titration	time and click "Add start	o the empty cylinder, set the ". The meter cellects the
Add time		10s >		water cutput.	
Add start			Add ti	ne	10s >
0 F-4 4	alle de sue la ser en el el si si Maller	unter Completell	Add st	art	
	vilinder volume and click *Calibration.	ration Complete"			link "Calibration Complete"
	the calibration.	ration Complete"	3.Enter		lick 'Calibration Complete"
to complete	the calibration.		3.Enter to com	the cylinder volume and d	dick 'Calibration Complete'' mi
to complete	the calibration.	mi	3.Enter to com	the cylinder volume and c plete the calibration.	m
to complete	ne 2	mi Done 3	3.Enter to com	the cylinder volume and c plete the calibration. volume 6	m
Enter volun	те са ibration. no 2 	mi Done 3 DEF	3.Enter to com	the cylinder volume and c plete the calibration. volume 6	m

Advanced

Settings

At the bottom right hand corner of the 'Plan' page there is a settings option.

Ŷ	22:31 Plan	58% 💽 '	.ut <	Ş	22:32 Settings	58% 🔳
Pump 1			Å	U X X	5xxoluAgog&&%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	
plan added						
2			Nar	ne	5xxoluA XX	xxxxxxxx >
added			Ser	ial Numb	er	>
			Upo	date Firm	ware	No Update
			Tim	e Setting	1	>
ded			Cor	nnect to (Controller	>
			Flov	w Calibra	tion	>
led			Fac	tory Sett	ings Reset	>
		1	Rem	ove Devi	ce	
	UL Manual	Co		Plan	U Manual	(O) Settings

In this you can:

Rename the Dosing Pump and the individual dosing pump heads.

In settings tap on 'Name' and the settings page will open. Select the pump name or the channel name you would like to change, enter the new name and tap 'Save' in the top right corner.

Update firmware.

If the firmware on the device is up to date 'No Update' will be displayed. If updates are available tap on the update and follow the instructions on screen. Do not close the app or power down the unit during this process.

Time setting

The unit should automatically sync to the correct time when setup and keep the correct time during a power outage. If the time is incorrect and needs to be adjusted tap on 'Time Setting' and select 'Time Sync'. It is normal for the 'Firmware time' to lag behind the 'App Time' by 1-5 seconds due to the time taken to process data between the app and the device.

Connect to controller

This option is unused at the moment.

Flow Calibration

Used to calibrate the unit to ensure accurate dosing. Please see Calibration in this manual.

Factory Settings Reset

Use this function to factory reset the unit. This will remove all programmed settings from the unit. To reset the unit, tap on 'Factory Settings Reset' and select reset. The unit will beep and temporally go offline. When the status light returns to solid red the unit is reset. This will not remove the unit from the app or cloud. Do not power off the unit during this process.

Remove Device

To remove the device from the app tap on 'Remove Device' and select remove. The unit will still be connected to the associated router and the Cloud. The D-D P4 Pro can be added back to a mobile device with the Kamoer Remote App installed by tapping on the '+' symbol on the devices page and choosing it from the 'Local Devices'.

WARRANTY:

Should any defect in material or workmanship be found within 12 months of the date of purchase D-D The Aquarium Solution Ltd undertakes to repair, or at our decision, replace the defective part free of charge.

Our policy is one of continual technical improvement and we reserve the right to modify and adjust the specification of our products without prior notification.