

Delta HLA Plus

An advanced high-water level alarm system, specifically designed for real-time tracking and monitoring of pumping stations.



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THIS MANUAL SHOULD BE KEPT WITH THE DELTA HLA PLUS DEVICE OR PROPERTY OWNER

1. General information

1.1 Principles

This installation and operating manual is valid for the Delta HLA Plus .

The manual describes the proper and safe use of this equipment in all phases of operation. It is intended for Installers and Service Providers. End-users (homeowners/property owners/facilities managers) should refer to the Delta HLA Plus User Guide.

The device contains no end-user serviceable parts. End-users should contact their Delta Registered Pump Service Provider if the device needs servicing or repairing.

If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

The overall safety of any system incorporating this equipment is the responsibility of the Installing Contractor.

In the event of damage, immediately contact your Delta Membranes Systems Ltd to maintain the right to claim under warranty.

2. Declarations

2.1 UKCA and CE approved

The product complies with the relevant sections of:

- EN 61010-1:2010+A1:2019 "Safety requirements for electrical equipment for measurement, control, and laboratory use Part 1: General requirements"
- EN 301 489-1 V2.2.3 (2019-11) "ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements"
- EN 301 489-17 V3.2.4 (2020-09) "ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband Data Transmission Systems"

2.2 Disposal

This PCB assembly is classified as Electrical or Electronic equipment and should not be disposed of in normal domestic or commercial waste.

The lithium ion battery should be recycled separately at an appropriate collection point. The terminals of lithium ion batteries should be taped up before disposal. The battery must not be allowed to get wet or damaged to prevent a risk of fire.

The mandatory crossed out wheeled bin symbol on these products indicates that the products shall not be mixed or disposed of in household or commercial waste. Under the WEEE Directive, the equipment should be recycled using the best possible techniques to minimise environmental impact and avoid unnecessary landfill.

For further information, visit http://www.legislation.gov.uk/uksi/2013/3113/contents/made



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Delta HLA

3. Important safety instructions

3.1 Key to safety symbols and markings

Symbol	Description	
DANGER	DANGER This signal word indicates a high-risk hazard which, if not avoided, will result in death or serious injury.	
WARNING	WARNING This signal word indicates a medium-risk hazard which, if not avoided, could result in death, serious injury, or damage to property.	
CAUTION CAUTION This signal word indicates a hazard which, if not avoided, could result in damage to the machine and its functions.		
	General hazard In conjunction with one of the signal words this symbol indicates a hazard which will or could result in death or serious injury.	
4	Electrical hazard In conjunction with one of the signal words this symbol indicates a hazard involving electrical voltage and identifies information about protection against electrical voltage.	
\$	Device damage In conjunction with the signal word CAUTION this symbol indicates a hazard for the device and its functions.	

3.2 Special characters

When used in conjunction with numerical values a dash "-" indicates a range, whereas a slash "/" indicates discrete values.

Example: "50/60 Hz" indicates either 50 Hz or 60 Hz and nothing in between. Example: "110–240 VAC" indicates any AC voltage between 110 V and 240 V.

3.3 General safety notices



DANGER

Do not open this unit if not qualified to do so. To reduce the risk of electric shock, do not remove cover. No user-serviceable parts inside.



DANGER

Before carrying out any maintenance work the system MUST be disconnected from the mains power supply, and measures must be taken to prevent the system from being inadvertently switched back on.



WARNING

When undertaking works within the chamber/sump suitable measures MUST to taken to ensure safe access in accordance with current safety regulations.



WARNING

All maintenance works (inspections and services) MUST be undertaken by a technically qualified/competent company/engineer with specific training on the device.

4. Delta HLA Plus overview

4.1 Delta HLA Plus Alarm overview

The Delta HLA Plus is a smart High-Water Level Alarm and Monitoring System, capable of delivering real-time monitoring and notification services, for ground, surface and foul water pumping stations.

Designed to put property owners in control – on any digital device, anywhere, at any time. For all important or timesensitive notifications, the Delta HLA Plus allows property owners to engage in real-time with their pump stations using the Delta Pumps App. The Delta Pumps App offers owners an uncomplicated way to register HLA Plus devices. After registration of the Delta HLA Plus all monitoring and notification services are sent directly to the listed keyholders via email.

High-water level alarms alert property owners when water levels in pump stations becomes too high and there is a risk of flooding.

The Delta HLA Plus can be retrofitted in any existing ground, surface and foul water pumping stations. Please refer to Section 7 on how to register a new Delta HLA Plus device(s) or Delta's Technical Guidance Notes.

To future-proof Delta HLA Plus devices, we recommend adding a Delta Level Float to enhance features on the Delta HLA Plus device into an 'Intelligent' High-Water Level Alarm and Monitoring System, not only detecting when a highwater level occurs in a pump station, but also to monitor pump activation(s), and changes in pump activation(s) both frequency, duration and flow rates.

4.1.1 Features

- Provides smart alarm function for single or dual pump system with or without control panel
- Suitable for ground, surface or foul water pumping stations
- Compatible with Wi-Fi or LAN/Ethernet connection
- Instant real-time monitoring to spot service failures before they make any impact
- Notification messages to users in real time on any digital device
 - if there is mains power outage,
 - when a high-water situation has been recorded
 - when a high-water level situation occurs
 - when a service or routine maintenance is due
 - when changes in pump activity occur (frequency and duration)
- Float Switch and 10 metre Cable supplied
- Colour coded LED Facia and audible displays
- Modern, lightweight, and compact design
- Compatible with Delta Level Float

4.1.2 Benefits

- Instant real-time monitoring of ground, surface and foul water pumping stations to identify potential issues before they make an impact
- Enables better planning of servicing and maintenance
- Instant communication during emergencies and other critical events
- Enhanced customer care
- Can be retrofitted to existing pump systems
- Delta Pumps App identifies multiple pump stations on one site
- Reduces risk of critical events
- A fully downloadable CSV history
- Allows for service intervals to be set at 3, 6, or 12 months
- No additional subscription fees for Monitoring and Notification Services

4.2 Delta HLA Plus Intelligent Alarm

The Delta HLA Plus Intelligent is supplied with a Delta Level Float and is compatible with all Delta V3, V4 and V6 groundwater and surface water pumping stations. Delta HLA Plus can also be retrofitted to any existing groundwater/ surface water pumping station.

The Delta HLA Plus 'Intelligent' is a highly advanced High-Water Level Alarm Monitoring System. The Delta Level Float transforms the Delta HLA Plus ('Smart' High-Water Level Alarm) into an 'Intelligent' High-Water Level Alarm, not only detecting when a high-water level occurs in a pumping station, it also monitors sump pump activity – number of activation(s), and changes in sump pump activation(s) (both frequency and duration). This additional information allows for real time calculation of flow, volumes of discharge over given periods, changes in level of activity within the pumping station including decline in pump performances. For full features of the Delta HLA Plus 'Intelligent' Pump Station Monitoring Device, all devices are required to be registered for free on the Delta Pumps App.

The Delta HLA Plus Intelligent has both proactive and preventive functions. Real-time analysis of your pumping station enabling service, maintenance, or repair requirements to be detected and implemented at the earliest stage.

Please refer to Section 7 on how to register a new Delta HLA Plus device(s) or Delta's Technical Guidance Notes.

4.2.1 Features

- Instant real-time monitoring to spot service failures before they make any impact
- Records frequency of pump station activations
- Records duration of pump station activations
- Records volume of water being evacuated from pumping station
- Records and monitors pump activities within pumping stations
- · Sends notification messages to users in real time:
 - if there is mains power outage,
 - when a high-water situation has been recorded
 - when a high-water level situation occurs
 - when a service or routine maintenance is due
 - when changes in pumping station activity occur (frequency and duration)
- Visual and audible displays on the HLA Plus Device
- Suitable for Domestic and Commercial Structures
- Can be retrofitted to existing groundwater or surface water pumping station

4.2.2 Benefits

- · Real-time streamline log analysis of pumping stations
- Instant communication during emergencies and other critical events
- Enhanced customer care
- Full visible log of all pumping station events logged in real time
- A fully downloadable CSV history
- Delta Pumps App identifies multiple pump stations on one site
- Reduces risk of critical events
- Logged data allows for better maintenance and service
 planning of pumping stations
- Allows for Service intervals to be set at 3, 6, or 12 months
- No subscription fees for Monitoring and enhanced Services
- Data stored on SD integrated card



- A. Power status
- B. High level
- C. High level recorded
- D. Service due
- E. Communications status and reset button
- F. Test button
- G. Audio alarm mute button
- H. High level float cable
- I. Level float cable for Delta HLA Plus Intelligent Alarm (optional)
- J. Volt-free contact cable (optional)
- K. Mains power cable
- L. Ethernet cable (optional)

Figure 1. Delta HLA Plus Control Unit.

4.3 Technical information

4.3.1 Technical specifications

Delta HLA Plus Control Unit (DMS HLAP)			
Power supply	230 V (± 10 %) AC 50Hz		
Power	5 W		
Rated current	0.2 A		
Internal battery	3.6 V, 7 Ah Li ion		
Clock battery	3 V CR2032		
Operating temperature	-10°C to +40°C		
Operating humidity (relative)	20% to 85% non-condensing		
Sound alarm level	80 dB		
Power cable length	1 metre		
Weight (excluding packaging)	640 g		
Enclosure material	ABS, V-0 flame retardant		
Colour	Grey		
Ingress protection rating	IPXO		
Impact protection rating	IK08		
Installation location	Indoor use only		
Max altitude	2,000 m		
Overvoltage category	2		
Pollution degree	2		

4.3.2 Volt-free contacts

The Delta HLA Plus features three volt-free (dry) contacts for connection to a building management system (BMS).

- High level
- Power fail
- Service due

They can be set to Normally Open (NO) or Normally Closed (NC) depending on external system's requirements.

Refer to Section 5.8 for more information.

Volt free relay contact specifications			
DC Ratings	24 VAC 1 Amp max		
AC Ratings	24 VAC 0.3 Amp max		



Figure 2. Dimensions of Delta HLA Plus Control Unit

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4.4 Parts included with Delta HLA Plus

Item	Qty
Delta HLA Plus Control Unit (DMS HLAP)	1
Cable gland (for cable diameters 3 mm–8 mm)	3
Wall plug	4
Ø 5 x 30 mm stainless steel screw	4
Installation and operating guide	1

On delivery carefully unpack the product. Check that all items on the parts list have been received and inspect for any signs of damage. Any missing items or damage must be reported immediately. No claim will be considered after 24 hours from time of delivery.

4.5 Float kits

The Delta HLA Plus Control Unit should be purchased with a high level alarm float kit. This will be either a Delta Broken Finger Float Kit (Section 4.5.1) or a Delta Pendant Float Kit (Section 4.5.2) depending on the pumping station being installed.

For Delta HLA Plus Intelligent monitoring, a Delta HLA Plus Level Float (Section 4.5.3) is required in addition to one of the above high level alarm float kits.

4.5.1 Delta Broken Finger Float Kit (DMS E232)

Delta Broken Finger Float Kit	Qt
Delta Broken Finger Float, 10 metre cable	1
Delta Float Shroud	1
Cable tie	2

Suitable for:

• Delta Dual V3/4/6



4.5.2 Delta Pendant Float Kit (DMS E233)

Delta Pendant Float Kit	Qty
Delta Pendant Float, 10 metre cable	1
Counterweight	1
20 mm cable gland	1
Cable tie	1

Suitable for:

- Delta Foul V3
- Delta 800 Dual V3/4/6
- Delta 800 Single Foul V3



4.5.3 Delta HLA Plus Level Float (DMS 536) for Delta HLA Plus Intelligent

Delta HLA Plus Level Float Kit	Qty
Level float switch, 10 metre cable	1
Level float bracket	1
Stainless steel clip	1
Cable gland (for cable dia. 3 mm–8 mm)	1

Suitable for:

- Delta Dual V3/4/6
- Delta 800 Dual V3/4/6



5. Site preparation and installation

5.1 Advisory

All products are manufactured and developed to the highest standards and assembled with precision and care. Each product has been rigorously tested. We constantly strive to develop our products to provide you with the most innovative products possible.

Please read these installation and operating guidelines carefully prior to installation. These guidelines contain important information and hazard warnings, which will enable you to install and operate your product safely, economically, and reliably.

Only qualified personnel should carry out the installation in accordance with the latest IET wiring regulations BS7671. All works should be in line with the Health and Safety at Works Act 1974.

It is important to note that this installation guide is for guidance only and it is the installer's responsibility to satisfy themselves that the installation procedure is in accordance with good practice, this will then eliminate any potential damage to the product during or after installation.

If you are unsure on any point, then please contact Delta Membranes on 01992 523 523 between 8am and 5pm, Monday to Friday or by email at info@deltamembranes.com for more information.

5.2 Intended use

This Delta HLA Plus is designed for use indoors or in a suitable waterproof outdoor enclosure. Under no circumstances should the product be installed outdoors without suitable protection from both water and extreme temperatures (operating temperature -10°C to +40°C).

If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.

The overall safety of any system incorporating this equipment is the responsibility of the Installing Contractor.

5.3 Location

5.3.1 General mounting requirements

Select a suitable location for the Delta HLA Plus Control Unit, taking into account that it must be located within 10 metres of the base of the pump chamber/sump via the cable duct to the Delta HLA Plus Control Unit. It must be mounted in a dry location at a minimum of 500 mm above finished floor level where the panel is audible and safely accessible by the end user and service engineers. When siting the panel please consider the Noise Pollution Act.

The Delta HLA Plus Control Unit should be located where there is a stable Ethernet or Wi-Fi connection to enable real-time alerts.

If you need to mount the panel further away from the pump chamber/sump, please contact Delta Membranes on 01992 523 523 between 8 am and 5 pm, Monday to Friday or by email at info@deltamembranes.com for more information.

5.3.2 Installation prerequisites

A 13 amp unswitched fused spur complete with a 3 amp fuse should be installed within 1 metre of the device's location. This fused spur will connect to a dedicated 6 amp MCB in a 230 V AC distribution board. The fused spur and breaker are not included. See Section 5.9.



DANGER

Location of disconnect equipment must not be obstructed so that it is difficult to operate the disconnecting device.

5.4 Mounting the Delta HLA Plus Control Unit

The Delta HLA Plus Control Unit includes pre-installed IP68 cable glands for the high level float cable and the mains power cable. If you are installing a Delta HLA Plus Intelligent Alarm with level float, or volt-free contacts you will need to install additional cable glands (supplied) before mounting the panel to the wall.



CAUTION

Care must be taken to ensure the internal components of the panel are not damaged when drilling.

5.4.1 Installing a cable gland for a Delta HLA Plus Level Float cable (for Delta HLA Plus Intelligent Alarm systems only)

If you are installing a Delta HLA Plus Intelligent Alarm you will need to install a cable gland for the level float cable in the enclosure backbox before mounting the panel to the wall.

Open the panel and separate the backbox from the front of the panel and then disconnect the battery from the PCB board.

Drill a 16 mm hole in the underside of the panel's backbox at the Level Float position (see Figure 3).

An IP68 cable gland is supplied with the Delta HA Plus Level Float.

5.4.2 Installing a cable gland for volt-free contacts (optional)

If you require volt-free contacts for connection to the building management system (BMS) you will need to install a cable gland for the volt-free contact cable in the enclosure backbox before mounting the panel to the wall.

Open the panel and separate the backbox from the front of the panel and then remove the battery.

Drill a 16 mm hole in the underside of the enclosure backbox at the VFC position (see Figure 3).

Install the supplied IP68 cable gland.

5.4.3 Mounting the Delta HLA Plus Control Unit to the wall

Once any additional cable glands have been installed, mount the panel to a wall or backboard using the mounting points located at the back of the panel. Please see Section 13 for the mounting plate template.

Use screws and plugs suitable for the surface being mounted to. Use Delta Qwikseal Plugs (DMS 131) if penetrating MS500 or PT waterproofing membrane. Stainless steel Ø 5 x 30 mm self-tapping screws and standard wall plugs are provided (6 mm drill bit).

After mounting the panel replace the front facia for protected. Do not connect the battery to the PCB board until commissioning.



Figure 3. Delta HLA Plus Control Unit connections

5.5 Installing a Delta Broken Finger Float Kit (for Delta Dual V3/V4/V6 pumping systems)

5.5.1 Mounting a Delta Broken Finger Float

Please refer to the specific installation and operating guidelines for the chamber/sump when installing the Delta Broken Finger Float.

The Delta Broken Finger Float is supplied with a 10 metre cable. If you require more than 10 metres please contact Delta Membranes on 01992 523 523 between 8am and 5pm, Monday to Friday or by email at info@deltamembranes.com for assistance.

- The Delta Broken Finger Float should be positioned between the activation points of the two pumps, as shown in Figure 4. This will cause the alarm to trigger if Pump 1 has failed, before Pump 2 empties the chamber. This periodic triggering is a useful indicator that there is a fault in the pumping station.
- 2. The Delta Broken Finger Float should be installed in the Delta Float Shroud. The shroud should be positioned on the vertical pipework of the rear pump so that it butts up to the base of the elbow and secured with cable ties. See Figure 5.
- 3. When positioning the Delta Broken Finger Float insert the cable through the green washer.
- 4. Position the Delta Broken Finger Float with the activation arm located in the upwards position as shown in Figure 6.
- 5. Insert the cable through the blue plastic washer and nut and tighten fully.
- 6. If necessary use cable ties to prevent the pump or float cables from causing an obstruction.
- 7. Draw cable through the cable duct along with the other cables at commissioning.



Figure 4. Delta Broken Finger Float on and off positions.



Figure 5. Fixing and orienting the Delta Float Shroud.

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Figure 6. Delta Broken Finger Float on and off positions.

5.5.2 Connecting a Delta Broken Finger Float to the Delta HLA Plus Control Unit

- 1. Loosen the float switch cable gland located on the underside of the panel, as shown in Figure 3.
- 2. Draw the Delta Broken Finger Float cable through the cable gland.
- 3. Connect the brown core left terminal and the blue core to the right terminal of the HLA FLOAT terminal block as shown in Figure 7 inset.

The panel is factory-set to a normally closed contact. The advantage is that should the float cable become damaged and/or disconnected the alarm will activate. This can be changed to Normally Open using the Delta Pump App if required.



Figure 7. Connecting the Delta Broken Finger Float to the Delta HLA Plus Control Unit.

5.6 Installing a Delta Pendant Float Kit (for Delta Foul V3, Delta 800 Series)

5.6.1 Mounting a Delta Pendant Float Switch

Please refer to the specific installation and operating guidelines for the chamber/sump when installing the float switch.

The Delta Pendant Float Switch is supplied with a 10 metre cable. Should you require more than 10 metres contact Delta Membranes on 01992 523 523 between 8am and 5pm, Monday to Friday or by email at info@deltamembranes.com for assistance.

- 1. Please ensure you position the Delta Pendant Float Switch higher than the primary pump activation point contained within, as shown in Figures 8–10.
- Install the cable securely. The Delta Pendant Float Switch should be installed using a float bracket in the chamber. The Delta Foul V3 chamber features an integral float bracket. 800 Series chambers feature a float bracket (see Section 11 Ancillaries).
- 3. Attach the counterweight approximately 70 mm from the top of the float. You must separate the counterweight by removing the centre screw using a 6 mm Allen key, once separated you will see two grooves, using the smaller of the grooves position the cable into place and put the counterweight back together ensuring the centre screw is tightened.
- 4. Pull the float cable through the M20 cable gland on the float bracket. Position the float higher than the primary pump activation point. Once the float has been positioned tighten the M20 gland.
- 5. Fix the cable into position using a cable tie to ensure the float doesn't drop down.
- 6. If necessary use cable ties to prevent the pump or float cables from causing an obstruction.
- 7. Draw cable through the cable duct along with the other cables at commissioning.



Figure 8. Setting the switching heights of the Delta Pendant Float Switch in a Delta Foul V3 Packaged Pumping Station.



Figure 9. Setting the switching heights of the Delta Pendant Float Switch in a Delta Dual V3/V4/V6 800 Series Packaged Pumping Station.



Figure 10. Setting the switching heights of the Delta Pendant Float Switch in a Delta Single V3 Foul 800 Series Packaged Pumping Station.

5.6.2 Connecting a Delta Pendant Float Switch to the Delta HLA Plus

- 1. Loosen the float switch cable gland located on the underside of the Delta HLA Plus Control Unit, as shown in Figure 11.
- 2. Draw the Delta Pendant Float Switch cable through the cable gland.
- 3. a. For NORMALLY CLOSED connections, connect the brown core to the left terminal and the blue core to the right terminal of the HLA FLOAT terminal block, as shown below. Isolate the black core.
 - b. For NORMALLY OPEN connections, connect the brown core to the left terminal and the black core to the right terminal of the HLA FLOAT terminal block, as shown below. Isolate the blue core.

The Delta HLA Plus Control Unit is factory-set to a Normally Closed contact. The advantage is that if the cable becomes damaged and/or disconnected the alarm will activate. This can be changed to Normally Open using the Delta Pump App if required.



Figure 11. Connecting the Delta Pendant Float Switch to the Delta HLA Plus Control Unit.

5.7 Installing a Delta Level Float (for Delta HLA Plus Intelligent Alarm)

5.7.1 Mounting a Delta Level Float

Please refer to the specific installation and operating guidelines for the chamber/sump when installing the float switch.

The Delta Level Float is supplied with a 10 metre cable. If you require more than 10 metres please contact Delta Membranes on 01992 523 523 between 8am and 5pm, Monday to Friday or by email at info@deltamembranes.com for assistance.

- 1. Attach the level float bracket to the vertical leg of the primary pump's manifold using the stainless steel clip. Check that the level float switch is positioned so that the high switching point is just below the activation point of the primary pump.
- 2. The bracket should be secured to the vertical leg of the primary pump's discharge pipework. The Delta Level Float and pumps must be positioned so they are not obstructed in operation by each other, pipework, cables or the chamber walls (see the plan view below).
- 3. Once positioned at the correct height, tighten the stainless steel clip to fix the bracket in position.
- 4. The low switching height must be set to just above the stop height of the primary pump.
- 5. If necessary use cable ties to prevent the pump or float cables from causing an obstruction.
- 6. Draw cable through the cable duct along with the other cables at commissioning.



Figure 12. Mounting the Delta Level Float in a Delta Dual V3/4/6 pumping station.



Figure 13. Mounting the Delta Level Float in a Delta Dual 800 V3/4/6 groundwater pumping station.

5.7.2 Connecting a Delta Level Float to the Delta HLA Plus Control unit

- 1. Drill a suitably-sized hole in the underside of the enclosure back box at the Level Float location for an IP68 cable gland (see Section 5.4.1).
- 2. Loosely position the IP68 cable gland in and draw the cable through it.
- 3. Connect the brown core to the left terminal and the blue core to the right terminal of the LEVEL FLOAT terminal block, as shown in Figure 14.
- 4. Tighten the cable gland to secure the cable.







5.8 Installing volt-free contacts (OPTIONAL)

The Delta HLA Plus features three volt-free (dry) contacts for connecting to an external system such as a building management system (BMS). They can be configured to be Normally Open (NO) or Normally Closed (NC) to suit the external system.

The volt-free contacts are intended for use of 3 V DC circuits with a rated current of less than 1 A.

5.8.1 High level volt-free contact

This contact will send a signal to the building management system (BMS) if a high level situation occurs.

5.8.2 Power fail volt-free contact

This contact will send a signal to the building management system (BMS) if there is a removal of mains power to the AquaSafe Alarm occurs. This relay is normally energised when mains power is applied.

5.8.3 Service due volt-free contact

This contact will send a signal to the building management system (BMS) when a service of the pump station is due.

5.8.4 Setting NC or NO contacts

To make a volt-free connection one core should connect to the Common (C) terminal (**Black**) and one core to either the Normally Open (NO) terminal (**Red**) or the Normally Closed (NC) (**Blue**). The choice of NO or NC contact depends on the requirements of the receiving system.



Figure 15. Connecting the volt-free contacts to the Delta HLA Plus.



DANGER

Do not apply mains voltage to these terminals.

20

5.9 Connect the Delta HLA Plus to the mains electrical supply



WARNING

When connecting to the mains electrical supply it is imperative that the Delta HLA Plus is connected to a dedicated power supply and not via a ring main.

The Delta HLA Plus Control Unit should be connected to the mains electrical supply by a qualified person in accordance with the Institute of Electrical Engineers Regulations with the IET wiring regulations BS7671. Please take into account all the electrical information as shown in Section 4.3.1 when installing the panel.

The Delta HLA Plus Control Unit should be connected to a clearly-labelled dedicated breaker (6 A MCB Type-B). Do not power either alarms or pumps via a ring main. If another device connected to the ring main trips the breaker your property will be at risk from flooding.

The panel comes with a 1 metre two-core mains power cable for connection to a 3 A unswitched fused spur. The unswitched fused spur should be adjacent to the Delta HLA Plus Control Unit. Only use the provided power cord.

If cable extensions are required for a pump power cable, a qualified electrical contractor must make all electrical connections. Suitable cable extension kits are available to order from Delta Membranes on 01992 523 523 between 8am and 5pm, Monday to Friday or by email at info@deltamembranes.com

Keep the connection isolated until you are ready to test the system.





Live (brown)



Neutral

(blue)

It is recommended the Boot Lace Ferrules are utilised on cabling and to check following install that there are no loose strands present that can cause short circuits.

Figure 16. Connecting the Delta HLA Plus Control Unit to mains electrical supply.

5. Site preparation and installation

5.10 Example installations

5.10.1 Delta HLA Plus with Delta Dual V3/4/6 Packaged Pumping Station



BREAKER SPECIFICATION

Delta HLA

	Description	Device type	Rating
Α	Delta HLA Plus	MCB	6 A
в	Delta V3 pump	RCBO, Type C	6 A
	Delta V4/6 pump	RCBO, Type C	10 A
с	Delta V3 pump	RCBO, Type C	6 A
	Delta V4/6 pump	RCBO, Type C	10 A

CABLE EXTENSIONS

5.10.2 Delta HLA Plus with Delta Foul V3 Packaged Pumping Station



BREAKER SPECIFICATION

	Description	Device type	Rating
А	Delta HLA Plus	MCB	6 A
в	Delta Foul V3 pump	RCBO, Type C	10 A

CABLE EXTENSIONS





BREAKER SPECIFICATION

	Description	Device type	Rating
Α	Delta HLA Plus	MCB	6 A
в	Delta V3 pump	RCBO, Type C	6 A
	Delta V4/6 pump	RCBO, Type C	10 A
с	Delta V3 pump	RCBO, Type C	6 A
	Delta V4/6 pump	RCBO, Type C	10 A

CABLE EXTENSIONS



5.10.4 Delta HLA Plus with Delta 800 Single Foul V3 Packaged Pumping Station

Delta 800 Single Foul V3

BREAKER SPECIFICATION

	Description	Device type	Rating
А	Delta HLA Plus	MCB	6 A
в	Delta Foul V3 pump	RCBO, Type C	10 A

CABLE EXTENSIONS

5.10.5 Delta HLA Plus Intelligent with Delta Dual V3-4-6 Packaged Pumping Station



BREAKER SPECIFICATION

Delta HLA

	Description	Device type	Rating
Α	Delta HLA Plus	MCB	6 A
в	Delta V3 pump	RCBO, Type C	6 A
	Delta V4/6 pump	RCBO, Type C	10 A
с	Delta V3 pump	RCBO, Type C	6 A
	Delta V4/6 pump	RCBO, Type C	10 A

CABLE EXTENSIONS



5.10.6 Delta HLA Plus Intelligent with Delta 800 Dual V3/4/6 Packaged Pumping Station

Delta 800 Dual V3/4/6

BREAKER SPECIFICATION

	Description	Device type	Rating
Α	Delta HLA Plus	MCB	6 A
в	Delta V3 pump	RCBO, Type C	6 A
	Delta V4/6 pump	RCBO, Type C	10 A
с	Delta V3 pump	RCBO, Type C	6 A
	Delta V4/6 pump	RCBO, Type C	10 A

CABLE EXTENSIONS

5.11 Internal batteries

5.11.1 Delta HLA Plus Control Unit battery backup

The Delta HLA Plus Control Unit features a lithium-ion rechargeable battery (DMS 544) so that it can continue to monitor the pumping station during periods of mains power failure. Replace this battery every two years.

Only use replacement batteries recommended by Delta Membranes Systems Ltd. See Section 11 for more information.

The lithium-ion battery should be recycled separately at an appropriate collection point. The terminals of lithium-ion batteries should be taped up before disposal. The battery must not be allowed to get wet or damaged to prevent a risk of fire.



DANGER Do not short circuit the battery or expose it to fire or heat. Do not allow it to get wet. If the battery becomes damaged replace it immediately.

5.11.2 Delta HLA Plus Clock Battery

The device also features a 3 V coin battery (DMS 543) which powers the internal clock. Replace this battery every two years. See Section 11 for more information.



Figure 17. Internal batteries.

5.12 Switching on for the first time

5.12.1 Make physical connections

- 1. Remove the front facia of the panel by unscrewing the cover and release the cable glands to obtain access to the inside of the panel.
- 2. Make high level alarm float connections as per Sections 5.5 (Delta Broken Finger Float) or 5.6 (Delta Pendant Float Switch).
- 3. Make the level float connection as per Sections 5.7 (if required).
- 4. Make volt-free contact connection (if required) as shown in Section 5.8.
- 5. Connect the internal battery to the PCB's battery backup terminal (see Figure 17).
- 6. Once the panel is connected it will run through its starting up sequence. The green POWER light will flash (and the unit will beep) until the mains power supply has been connected.
- 7. Replace panel fascia fixing screws and tighten the cable gland before switching on from the mains power.
- 8. Switch on mains electrical supply. The green POWER light will now be permanently lit and the system is ready to monitor.

5.12.2 Check the device is working

- 1. Remove power to the pumps and fill the chamber with water until the high-level float switch is activates. The Delta HLA Plus should register a High Level Alarm state. It should sound the audio alarm and the HIGH LEVEL light should glow red.
- 2. Press the MUTE button. The sounder should be silenced but the HIGH LEVEL visual indicator should remain lit.
- 3. Restore power to the pumps to empty the chamber. As the level drops the high level float switch will de-activate and the HIGH LEVEL light will switch off. The HL RECORDED visual indicator will flash amber to indicate a high level state has occurred but the system is now at a lower level.
- 4. Reset the High-Level Alarm Recorded state by following the procedure in Section 6.2.3.
- 5. Press the TEST button to simulate a high level alarm state. See Section 6.1.1.

5.12.3 Set up the network connection

Please refer to Section 7.

5.12.4 Register the device with the Delta Pump App online portal

Please refer to Section 7.7.



Figure 18. The device in normal operation with an active Internet connection and no alerts active.

5.12.5 Set the Service Due Reminder interval

The Service Due Reminder interval is factory-set to 12 months. You can change the interval to 3 months or 6 months.

Changing the service interval via the Delta Pumps App

If the device is connected to the Internet and registered with the Delta Pumps App, you can change the Service Intervals online in Device Details.

Changing the service interval via the PCB board (Delta Registered Service Providers only)

If the device is operating in standalone mode you can change the Service Intervals directly on the PCB Board.

- Isolate the device from mains power and take steps to prevent the mains power from being inadvertently switched on. The device will operate under battery power.
- Carefully open the device enclosure
- Locate the yellow button on the PCB board labelled Set_Service. There are three LED's alongside. Note which LED is lit. This indicates the current setting.
- Press the yellow Set_Service button until the LED for the desired Service Interval is lit.
- Carefully close the device and fasten the facia to the backbox.
- Restore mains power.



DANGER

Before carrying out any maintenance work the system MUST be completely disconnected from the mains power supply, and measures should be taken to prevent the system from being inadvertently switched back on.



Figure 19. Location of the SET_SERVICE button and LED indicators on the PCB board

6. Operation

6.1 Buttons

6.1.1 Test button



Figure 20. The test button.

- A short press (less than 2 seconds) of the TEST button will simulate a high level alarm.
- The audio sounder will beep three times and the HIGH LEVEL LED will flash once.
- This will override the high level alarm mute function if it has previously been activated.
- When the TEST button is released, the HL RECORDED LED will not start flashing (unlike a genuine high level alarm state).

Testing the Volt Free Contacts

- Pressing and holding the TEST button for 10 seconds will activate the Volt Free Contact relays (you may hear a quiet click).
- If your device is connected to a building management system, that system will receive an alarm signal from the device.
- The audio sounder will beep three times and the HIGH LEVEL LED will flash once.
- This will override the high level alarm mute function if it has previously been activated.
- When the TEST button is released, the HL RECORDED LED will not start flashing (unlike a genuine high level alarm state).
- Press and hold the Test button for 5 seconds to reset the relays.

6.1.2 Mute button



Figure 21. The mute button.

The audible alarm will be activated if:

- · the test button is pressed,
- a high level state is detected,
- mains power fails,
- comms fails,
- a service is due.

To silence the audible alarm for 7 days, hold the MUTE button for 5 seconds – the sounder will beep confirm.

Should a new fault condition occur within the seven days the sounder will reactivate.

Each time the MUTE button is pressed the date and time will be logged.

Please note the POWER, HIGH LEVEL,

HL RECORDED, COMMS and SERVICE LED alerts will continue until the system returns to its normal condition or the system is reset.

To unmute the system press and hold the MUTE button for 5 seconds,

6.1.3 Comms button



Please refer to Section 4 for setting up the Ethernet / Wi-Fi connections.

To factory-reset the communications settings on the on the device hold the COMMS button for 10 seconds, then follow Section 7 to setup the Wi-Fi/Ethernet connection again.

Walaama	haali									
weicome	Dack									
Status	Serial number	Property owner	Sile address	Product type	Servicer	Water type	Chamber diameter (mm)	Location	Service due	Setup date
(1)*	(2)*									
🜱 4. Connection Failure	ND3iyidkVEki	Delta Membrane Systems Ltd. Delta Customer	Unit 3, Merlin Way, North Weald, Epping, Essex, CM16 6HR	DMS 538 – Delta HLA Plus Intelligent Groundwater	Delta Membrane Systems Limited	Ground	800	Delta Pumps Demo Room	17/09/2025	17/09/2024 13:53:39
📌 4. Connection Failure	xvtMjginaEfk	Delta Membrane Systems Ltd, Delta Customer	Merlin Way, North Weald, Epping, Essex, Essex	DMS 538 – Delta HLA Plus Intelligent Groundwater		Surface / Ground	800	Plant room	17/09/2025	17/09/2024 17:20:33
Export To Excel										
			Technical sup	port: 01992 523 523 info@deltame	mbranes.com					

Figure 22b. Example of a dashboard showing a connection failure.

6.2 LED colours codes and sounds

6.2.1 Power LED



Figure 23a. The power indicator.

GREEN Mains power present

AMBER Loss of mains power running on backup battery. The lamp flashes amber every 2 seconds. The system will beep periodically.

RED Mains power absent and battery under 10%. The lamp flashes red every 2 seconds. The system will beep periodically. This will also occur if there is a battery fault.

If mains power is restored the beeps will stop automatically.



Figure 23b. An example of the Delta Pumps App dashboard showing mains power present.

			CE HELD MY ACCOUNT
DEEIAD		DEVICES REGISTER DEVI	CE HELF MITACCOUNT
Serial numb	per: xvtMjgInaEfk		
	1 🔨 📋 🖌 🖳 🥅		
LEVEL NO HIGH OK RECOR	LI YEL NO ATTERY SERVICE LAN SD CARD DE POWER / WER 100% NOT DUE CONNECTED OK		
SITE DETAILS			
Property owner	Delta Customer, Delta Membrane Systems Ltd		
Site address	Merlin Way		
	North Weald		

Figure 23c. An example of the Delta Pumps App dashboard showing a mains power failure.

Flat battery

If mains power is not restored, the battery will continue to discharge. If the battery charge falls below a critical threshold the device shuts down.

Once mains power is restored the Delta HLA Plus will automatically reboot. The time to next Service value will be retrieved.

Once the connection to the Delta Pumps App is restored, all locally-stored data will be synchronised.

Battery fault

If there is a battery fault or the battery is disconnected the Power LED will flash constantly and the device will beep periodically.

Disconnect the device from mains power then open the panel and chedck the battery is connected to the PCB board (see Section 5.11.1). If the battery is connected, replace the battery (see Section 11).

Once mains power is restored the Delta HLA Plus will automatically reboot. The time to next Service value will be retrieved.

Once the connection to the Delta Pumps App is restored, all locally-stored data will be synchronised.

6.2.2 High level (red)



Figure 24a. The high level alarm indicator.

- When a high level state is detected in the chamber the HIGH LEVEL LED will light up red and the panel will beep.
- When the water level in the chamber falls below the deactivation level of the high level alarm float, the beeping will stop automatically and the LED will switch off.
- The HL RECORDED LED will then flash yellow to warn that a high level state has occurred.



Figure 24b. An example of the Delta Pumps App dashboard showing a high level alarm.

6.2.3 High level (HL) recorded (yellow)



Figure 25a. The High Level Alarm Recorded indicator.

- The panel displays HL RECORDED after a high level condition has returned to normal for the first time.
- The HL RECORDED LED will flash every until reset.
- To reset the system hold the test button and mute button together for 10 seconds. After 10 seconds the sounder will beep 3 times and the HL RECORDED LED will stay lit, this acknowledges the command has been successfully completed.

DELTA 🎮							DEVICES	Hello Delta Customer, De REGISTER DEVICE	HELP	ne Systems Ltd <u>Sign ou</u> MY ACCOUNT
Serial humb	er: xvtMjg	INALTK								
				P		-10				
	-7			西西		- "				
LEVEL HIGH LEV	ED AMAINS POWER	BATTERY POWER 100%	SERVICE NOT DUE	LAN CONNECTED	SD CARD OK	ALARM NOT MUTED	-	_		
Property owner	Delta Custome	er, Delta Membrane	Systems Ltd							
Site address	Merlin Way									
	North Weald									

Figure 25b. An example of the Delta Pumps App dashboard indicating a high level condition has been recorded.



WARNING - High Level Alarm Recorded

Your pumping station may be at risk. High water levels can be a sign of a problem. Please check your monitoring system. If necessary, please contact your pump servicing provider for assistance.

6.2.4 Service due (red)



Figure 26. Service due indicator.

- If a service is due the system will flash and beep every 2 seconds.
- To silence the audible alarm for seven days, press and hold the Mute button for five secons. See Section 6.1.2.
- Only a Delta Registered Service Provider can change the Service Reminder Due interval. This is changed in the Delta Pumps App by editing the device details. service intervals can be set to 3, 6 or 12 months.





6.2.5 Communications status



Figure 27. Comms failure.

If the Delta HLA Plus Control Unit is connected to Ethernet or Wi-Fi the COMMS button will glow green. It will synchronise with the Delta Pumps App every five minutes.

If it is unable to connect to the Internet, the Comms button will glow red. The date and time of the comms failure is logged.

Once the connection has been restored, the Comms button reverts to glowing green. The Delta HLA Plus Control Unit will synchronise with the Delta Pumps App.

To set up or change your connection please refer to Section 7.



7. How to connect your Delta HLA Plus

7.1 The benefits of connecting to the Delta Pumps App

The Delta HLA Plus can work as a standalone device but you must set up an Internet connection to benefit from its advanced features list and the subscription-free Delta Pumps App.



You can connect your Delta HLA Plus to the Delta Pumps App in four simple steps.

- 1. Connect to the Delta HLA Plus's own Wi-Fi access point using a smartphone (or other Wi-Fi enabled device such as a laptop or tablet).
- 2. Connect your Delta HLA Plus to the Internet via either a wired Ethernet connection or Wi-Fi.
- 3. Create an account on the Delta Pumps App to allow you to monitor your system's status and much more.
- 4. Register your Delta HLA Plus on the Delta Pumps App.

7.2 Setting up the Delta HLA Plus's Internet connection

The Delta HLA Plus has it's own Wi-Fi access point which is only active during setup.

- 1. When the access point is active the COMMS button will flash green continuously **1**. To activate this mode, press and hold the COMMS button for 10 seconds.
- 2. Whilst adjacent to the Delta HLA Plus Control unit scan for Wi-Fi access points on your smartphone (or other Wi-Fi enabled device such as a laptop or tablet).
- 3. Connect to the Wi-Fi access point called Delta HLA Plus (2)
- 4. Open a browser window and enter 192.168.4.1 in the address bar 3.
- 5. If a no Internet connection has been previously set up you will see the screen opposite.
- 6. You can choose to connect the device to the Internet via Wi-Fi (Section 7.2) or Ethernet (Section 7.3).
- 7. You can also choose to operate the device in standalone mode without an Internet connection (Section 7.4)

Go to 7.3 for Wi-Fi connections or 4.4 for Ethernet connections »



7.3 Connecting your Delta HLA Plus to the Internet via Wi-Fi

Only connect via Wi-Fi if the signal strength at the device's location is consistently strong.

- 1. Choose a Wi-Fi access point using the drop-down SSID menu 1. The signal strength (RSSI) is shown next to the name. For a good connection this should be between 0 and -60 dBM. The example below shows an RSSI of -37 dBM which is excellent.
- 2. Enter the password for the chosen Wi-Fi network (2) and press Save (3).
- 3. The Delta HLA Plus will reboot and connect automatically. The COMMS button on the front of the panel will glow solid green indicating an Internet connection is active.
- 4. Open a browser window and enter **deltahlaplus.local** in the address bar.

The Delta HLA Plus homepage now shows the device's status including Wi-Fi connection details and device parameters including battery level and the due date of the next service.

Go to Section 7.5 to create an account on Delta Pumps App »

A. Connect to the device's own Wi-Fi access point (**Delta HLA Plus**) to configure its connection to the Internet via your Wi-Fi enabled router



B. After rebooting the device is connected to the Internet via Wi-Fi and accessible on your local network



7.4 Connecting your Delta HLA Plus to the Internet via Ethernet

A wired connection via Ethernet cable is the preferred method especially where the Wi-Fi signal at the device's location is weak.

- The Delta HLA Plus Control Unit features an Ethernet port for wired LAN connections. Connect the device to your router or multi-port network switch using a Cat5 or Cat6 Ethernet cable 1.
- 2. Press the Save button next to Use Ethernet 2.
- 3. The Delta HLA Plus will reboot. Your router should automatically connect the device to the internet using using DHCP (Dynamic Host Configuration Protocol). The COMMS button will glow solid green indicating an Internet connection is active.
- 4. Open a browser window and enter **deltahlaplus.local** in the address bar.

The Delta HLA Plus homepage now shows the device's status including Ethernet connection details and device parameters including battery level and the due date of the next service.

Go to Section 7.7 to create an account on Delta Pumps App »



A. Connect the device to your router or network switch

B. Connect to the device's own Wi-Fi access point (**Delta HLA Plus**) and choose Ethernet



C. After rebooting the device is connected to the Internet via Ethernet and accessible on your local network



7.5 Operate the device in standalone mode

If you do not want to connect your Delta HLA Plus to the Delta Pumps App the device can be configured to operate in standalone mode.

The device will provide audio and visual alerts:

- when there is a high level condition within the chamber
- if a High Level condition has been recorded
- if a service is due

Connect to the device using its own Wi-Fi access point (see Section 4.2) then choose **No Network 1**.

The device will reboot automatically and the COMMS button will glow red to indicate there is no Internet connection.

Only use this mode if the Delta HLA Plus is located where it can be seen and heard so you can be alerted of any fault conditions.

Any volt-free contact connections will function normally.

Γ	19	2.168.4	.1		
		•			
••• •• ••		192.168.4.1	0	۲	0 + 0
🔼 Delta H	ILA Plus				
Configure N Serial Numbe	letwork r: aBCde1FG	23Hi			
SSID:			3		
Password:					
Save					
Use Ethernet:	Save				
No Network:	Save -	1			

7.6 Changing the Delta HLA Plus communications settings

To change the method the device uses to communicate with the Internet, for example switch from Ethernet to Wi-Fi or change the Wi-Fi access point it uses, you must reset the device's communications settings.

Press and hold the COMMS button for 10 seconds. The COMMS button will flash green to indicate the **Delta HLA Plus** Wi-Fi access point is active. You can now choose to set up a Wi-Fi or Ethernet connection or operate the device in standalone mode.

7.7 Create your account on the Delta Pumps App

If you already have a Delta Pumps App account go to Step 7.8

- 1. Visit https://pumps.deltapumpsapp.com/
- 2. Select Create an account.
- 3. Add the following
 - email address,
 - set up a password
 - Your name and phone number

and confirm if the Account Type

- Customer you have purchased the Delta HLA Plus device from Delta Membranes and have installed it as part of a Type-C Waterproofing System or with a standalone pumping station.
- Servicing Partner you purchased the Delta HLA Plus device from Delta Membanes and/or you have been employed to service the pumping station.
- **Property Owner** a Delta HLA Plus device is installed in your property or a property that you manage.
- 4. Click Create my account

Go to 7.8 Register your device »



7.8 Register your device

- 1. Sign in to the Delta Pumps App.
- 2. Either scan the QR code on the side of the Delta HLA Plus Control Unit, or go to **Add Devices** and enter the device's Serial Number and press Continue.

	DELTAR Devices REGISTER DEVICE BOOK VISIT CONTACT O&M GUIDE MY ACCOUNT
	Register Device
Tatewiti 200a 109780500380 Wifi Mac 109780500380 Works CopPe	Continue
U23456	Technical support 014/02 523 553 info@defarmehozees.com © 2024 Selta Membrase Systems Ltd
SERIAL NUMBER	

8. Using the Delta Pumps App

8.1 Delta Customer dashboard

Once you log into your dashboard you will be able to see all the devices registered under your company.

DELIA						DEVICE	S REGISTER	DEVICE HEL	P MY	ACCOUNT
Nelsense	haali									
veicome	раск									
	Serial						Chamber diameter		Service	
Status	number	Property owner	Site address	Product type	Servicer	Water type	(mm)	Location		Setup date
(1) *	(2)+									
📌 4. Connection Failure	xvtMjgInaEfk	Delta Membrane Systems Ltd, Delta Customer	Merlin Way, North Weald, Epping, Essex, Essex	DMS 538 – Delta HLA Plus Intelligent Groundwater		Surface / Ground	800	Plant room	17/09/2025	17/09/2024 17:20:33
🖌 9. OK	ND3iyidkVEki	Delta Membrane Systems Ltd, Delta Customer	Unit 3, Merlin Way, North Weald, Epping, Essex, CM16 6HR	DMS 538 – Delta HLA Plus Intelligent Groundwater	Delta Membrane Systems Limited	Ground	800	Delta Pumps Demo Room	17/09/2025	17/09/2024 13:53:39

To view a device in more detail, click on the device. You can Edit Details or Add Keyholders from this screen

				hand the second second	
DELTA 🎜		DEVICES RE	Helio Delta Customer, De	elta Membrane Systems Ltd HELP MY ACCOU	<u>Sign o</u> JNT
0					
Serial numbe	r: ND3IYIQKVEKI				
SITE DETAILS					
Property owner	Delta Customer, Delta Membrane Systems Ltd				
Site address	Unit 3, Merlin Way				
	North Weald				
Town	Epping				
County	Essex	CURRENT ALERTS			
Postcode	CM16 6HR	Last updated: 25/09/2024 15:38:36			
Phone					
Email		INTELLIGENT DATA			
PUMPING STATION		No pump activations have been logged to dat float switch fitted. Please contact your service	te. Intelligent data is on e company if you would	ily applicable if you have a set d like these features.	conda
Product type	DMS 538 - Delta HLA Plus Intelligent Groundwater	ALERT HISTORY			
Water type	formed and		_		
	Ground	Aiert type	Date / Start	Duration	
Chamber diameter (mm)	900	Alert type X 6. Rettery Level 100%	Date / Start 25/09/2024 15:34:49	Duration	
Chamber diameter (mm) Pump single/twin	urouna 800 Twin	Alert type X 6. Bettery Level 100% V 9. Bettery Temperature DK	Date / Start 25/09/2024 15:3449 24/09/2024 11:28:32	Duration	
Chamber diameter (mm) Pump single/twin Pump 1 serial number	urouna 800 Twin Va0001	Alert type	Date / Start 25/09/2024 15:34:49 24/09/2024 11:29:32 17/09/2024 15:12:42	Duration	
Chamber diameter (mm) Pump single/twin Pump 1 serial number Pump 2 serial number	urouna 800 Twin V30001 V30001	Alert type	Date / Start 25/09/2024 15:34:69 24/09/2024 11:29:32 17/09/2024 15:12:42 17/09/2024 15:01:53	Duration	
Chamber diameter (mm) Pump single/twin Pump 1 serial number Pump 2 serial number	urouno 600 7win Va0001 Va0002	Alaftiype Alaftiype B. Battery Level 100%	Data / Start 25/09/2024 15:84:89 24/09/2024 11:28:32 17/09/2024 15:12:42 17/09/2024 15:01:53 17/09/2024 15:01:53 17/09/2024 15:01:53	Duration	
Chamber diameter (mm) Pump single/twin Pump 1 serial number Pump 2 serial number Battery backup unit	49088 800 7Win V30001 V30002 No	Antityse X E. Semey Lenk 1005 Semey Lenkery Tengeneuro DC C. Concentor Nolve X E. Denney Lenker X E. Semey Lenker 2005 Lenker Lenker 2005 Lenker 2005 Len	Data / Start 25/09/2024 15:34-49 24/09/2024 15:12-42 17/09/2024 15:12-42 17/09/2024 15:12-63 17/09/2024 15:15-61 17/09/2024 15:01-67 17/09/2024 15:01-67	Duration	
Chamber diameter (mm) Pump single/twin Pump 1serial number Pump 2 serial number Battery backup unit Pump station type	urouna 800 Twin V30001 V30002 No V2	Antityse Antityse d. Sateray Lengensia 00 d. Sateray Lengensia 00 d. Sateray Lengensia d. Sateray Leng 2016 li Sateray Leng 20	Date / Start 25/09/2024 15:04:09 24/09/2024 15:04:09 17/09/2024 15:01:09 17/09/2024 15:01:07 17/09/2024 15:01:07 17/09/2024 14:52:00 17/09/2024 14:52:16	Oursition Image: Constraint of the second	
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8.1.1 Register a new device

To add a new device to your account press **Register a device**. Type the serial number from the device or the card in the box.

					DE1//050	Hello Delta Customer, De	elta Membra	ne Systems Ltd Sign ou
DELIAP					DEVICES	REGISTER DEVICE	HELP	MY ACCOUNT
Register Device								
Enter Serial number	ND3iyId3VEki							
Continue								
		Technical supp	ort: 01992 523 523 <u>info@d</u>	eltamembranes.com				
		٥	2024 Delta Membrane Syst	ems Ltd				

If any personal details change they can be amended in **My Account**.

8.2 Service Partner dashboard

Once you log into your dashboard you will be able to see all the devices registered under your company.



To view a device in more detail, click on the device. You can Edit Details or Add Keyholders from this screen

		Hello Registered Pump Ser	rvicing Partner, Delta Membrane 8	Systems Limited <u>Sign ou</u>
DELTA 🎮		DEVICES REG	SISTER DEVICE HELP	MY ACCOUNT
Serial numbe	r: ND3ivldkVEkl			
	L MAINS POWER TOX. SEVICE CONNECTED SO CARD			
ITE DETAILS				
roperty owner	Delta Customer, Delta Membrane Systems Ltd			
ite address	Unit 3, Merlin Way			
	North Weald			
own	Epping			
ounty	Essex	CURRENT ALERTS		
ostcode	CM16 6HR	Last updated: 25/09/2024 15:43:03		
tone		NULE .		
mail		INTELLIGENT DATA		
IMPING STATION		No pump activations have been logged to date float switch fitted. Please contact your service	. Intelligent data is only applicable company if you would like these	e it you have a secondary features.
UMPING STATION		ALERT HISTORY		
roduct type	DMS 538 - Delta HLA Plus Intelligent Groundwater	Ainthune	Date / Start	Duration
/ater type	Ground	(1)*	Date / Guet	Duration
hamber diameter (mm)	800			
and the second sec				
imp single/twin	Twin	X 6. Ballery Level 100%	25/09/2024 15:34:49	
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8.2.1 Register a new device

To add a new device to your account press **Register a device**. Type the serial number from the device.

		Hello Registered Po	imp Servicing Partner, Delta N	lembrane S	ystems Limited Sign o
DELIA		DEVICES	REGISTER DEVICE	HELP	MY ACCOUNT
Register Device					
Enter Serial number	OGnwFYOiUaLT				
Continue					
	Technical support: 01992 523 523 info@deltar	nembranes.com			
	© 2024 Delta Membrane Systems	Ltd			

8.2.2 Updating the device details

As a registered Service partner, you are able to make some setup changes to the device in Update My Device Details.

You are able to update the following device details:

- Product type (if the pumping station monitored by the Delta HLA Plus changes)
- Water type (if the pumping station monitored by the Delta HLA Plus changes)
- Whether it is a twin or single pump in the system
- Change the pumps' serial numbers if the pumps are replaced
- · Whether a battery back-up system is connected to the pumping station

8.2.3 If the end-user changes the service partner

If the end-user change service partner from you to another company, you will receive an email informing you of the change.

A confirmation email will also be sent to the holder of the device's warranty and the end-user.

If you think this change has been made in error please contact the end-user. Once this move is completed you will no longer have access to the device on your dashboard.

8.3 End-user dashboard

Once you log into your dashboard you will be able to see all the devices registered in your name.

DEEIA						DEVICE	S REGISTER	DEVICE HEL	P MY	ACCOUNT
Welcome	back									
Status	Serial number	Property owner	Site address	Product type	Servicer	Water type	Chamber diameter (mm)	Location	Service due	Setup date
(1)+	(2)+									
< 4. Connection Failure	xvtMjgInaEfk	Delta Membrane Systems Ltd, Delta Customer	Merlin Way, North Weald, Epping, Essex, Essex	DMS 538 – Delta HLA Plus Intelligent Groundwater		Surface / Ground	800	Plant room	17/09/2025	17/09/2024 17:26:33
7. Battery Restored	ND3iyldkVEkl	Delta Membrane Systems Ltd, Delta Customer	Unit 3, Merlin Way, North Weald, Epping, Essex, CM16 6HR	DMS 538 – Delta HLA Plus Intelligent Groundwater	Delta Membrane Systems Limited	Ground	800	Delta Pumps Demo Room	17/09/2025	17/09/2024 13:53:39

To view a device in more detail, click on the device. You can **Edit Details** or **Add Keyholders** from this screen. Please note Keyholders will also get alerts when there is a problem.

DELTAX			GISTER DEVICE HEID	MY ACCOUNT
		DLVIGES RE	SIGTER DEVICE HELP	ACCOUNT
Serial numbe	r: ND3iyldkVEkl			
	Ĭ⊎,Ĭ @ Ĭ €,Ĭ ₽ Ĭ Ĭ⊿₀∖			
LEVEL NO HIGH LEVE	L MAINS BATTERY SERVICE LAN SD CARD ALARM NOT	of the second se		
OK RECORDED	POWER POWER 100% NOT DUE CONNECTED OK MUTED	12121		
SITE DETAILS				
Property owner	Delta Customer, Delta Membrane Systems Ltd	Prest I IIII		
Site address	Unit 3, Merlin Way	The second secon		
	North Weald			
lown	Epping	CURRENT ALERTS		
County	LSSEX	Last updated: 25/09/2024 15:43:03		
Postcode	CM16 6HR	None		
Phone		INTELLIGENT DATA		
Email		No pump activations have been logged to dat	e. Intelligent data is only applicab	le if you have a secondary
PUMPING STATION		float switch fitted. Please contact your service	e company if you would like these	e features.
Product type	DMS 538 - Delta HLA Plus Intelligent Groundwater	ALERT HISTORY		
Water type	Ground	Alert type	Date / Start	Duration
Chamber diameter (mm)		(1) †		
	800			
Pump single/twin	800 Twin	E Battery Level 100%	25/09/2024 15:34:49	-
Pump single/twin Pump 1serial number	800 Twin V20001	K. Bathery Larvel 100% V. Bathery Vermenture OK	25/09/2024 15:34:49 24/09/2024 11:28:32	
Pump single/twin Pump 1serial number Pump 2 serial number	800 Twin Vadooo1 Vadoo2	E. Sathary Lengendure OK Sathary Lengendure OK 4. Connection Failure	III 25/09/2024 15:34:49 24/09/2024 11:28:32 17/09/2024 15:12:42	
Pump single/twin Pump 1serial number Pump 2 serial number Battery backup unit	800 Twin V30001 V30002 No	E. Battery Level 100% C. Battery Level 100% S. Battery Interpretative OK 4. Correction Failure X. 2. House Failure	III 25:09/2024 15:34:49 24:09/2024 15:24 17:09/2024 15:12:42 17:09/2024 15:01:53	1920t 38m 39a
Pump single/twin Pump 1 serial number Pump 2 serial number Battery backup unit Pump station type	800 Twin V20001 V30002 No V3	III X 0. Buthey Level 100% √ 0. Buthey Importance OX X 0. Connection 1 market X 2. Prome Failure X 0. Buthey Level 20%	III 25509/2024 15:34:49 24509/2024 11:28:32 17/09/2024 15:12:42 17/09/2024 15:12:43 17/09/2024 15:01:53 17/09/2024 15:01:07	15/2h 38x
Pump single/twin Pump 1serial number Pump 2 serial number Battery backup unit Pump station type Location	B00 Twin V20001 V30002 No V3 Deta Pumpa Demo Room	Endersy Larent 100% Subatry Interpretation OK Subatry Interpretation OK Consection Fathere Consection Fathere Consection Fathere Consection Fathere Consection Fathere The Consection Fathere	III 25:09/2024 15:54:49 24:09/2024 12:832 17:09/2024 15:12:42 17:09/2024 15:15:33 17:09/2024 15:10:7 17:09/2024 15:320 17:09/2024 15:320	HI 152h 38m 39a 152h 48m 18a
Pump single/twin Pump 1 serial number Pump 2 serial number Battery backup unit Pump station type Location	800 Twin V30001 V30002 No V3 Delta Pumps Demo Room	III X 6. Balany Lanet 1005 V 8. Balany Lanet 1005 X 4. Connection Patters X 4. Connection Patters X 4. Connection Patters X 4. Connection Patters X 6. Balany versition X 6. Balany versition X 1. Suffyl Level Alem X 1. Suffyl Level Alem X 1. Suffyl Level Alem	III 25/09/2024 15:54:49 24/09/2024 12:8:32 17/09/2024 15:01:83 17/09/2024 15:01:83 17/09/2024 15:01:07 17/09/2024 15:01:07 17/09/2024 15:01:03 17/09/2024 15:01:07 17/09/2024 15:01:07 17/09/2024 15:01:03	
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Pump single/twin Pump 1 serial number Battery backup unit Pump station type Location ALARM SYSTEM Berlal number Delta customer Delta servicing partner	BOD Twin V30001 V30002 No V3 Delta Pumps Demo Room ND3ryldk/Ekl Kevin Dodds Registered Pump Servicing Partnet, Delta Membrane Systems Limited	B Constant of the second sec	III 2x00/0204 15:3x40 2x00/0204 15:0x32 1x00/0204 15:0x13 1x00/0204 15:0x13 1x00/0204 15:0x13 1x00/0204 15:0x13 1x00/0204 15:0x14 1x00/0204 15:0x14	Image: Control of the second
Pump single/twin Pump 1serial number Pump 2 serial number Battery backup unit Pump station type Location ALARM SYSTEM Serial number Delta servicing partner Service interval	B00 Twin V30001 V30002 No V3 Deba Pumps Demo Room NDäyldk/Ebi Kevin Dodds Registered Pump Servicing Partner, Deba Membrane Systems Limited 12	B Constant C	III 2x0002024 15.35.40 2x0002024 15.35.40 17/002024 15.15.3 17/002024 15.15.3 17/002024 15.15.3 17/002024 15.15.17 17/002024 15.13 17/002024 15.3.13 17/002024 14.53.13 17/002024 14.52.31 17/002024 14.52.31 17/002024 14.52.44 17/002024 14.52.44 17/002024 14.52.45 17/002024 14.52.45	III 1020 58m 30a 1020 68m 10a 1020 60m 10a 0h 50m 10a 0h 50m 10a 0h 50m 10a
Pump single/twin Pump 1serial number Pump 2 serial number Battery backup unit Pump station type Location ALARM SYSTEM Serial number Delta servicing partner Service interval Last service	800 Twin V30001 V30002 No V3 Delta Pumps Demo Room NDälyldk/Ekl Kevin Dodds Registered Pump Servicing Partner, Delta Membrane Systems Limited 12	III X 8. Districy Long 100% V 9. Districy Long 100% X 4. Connection Pattern X 2. Name Pattern Pattern X 2. Name Pattern X 2. Name Pattern Pattern X 2. Name Pattern Pattern X 3. Name Pattern Pattern	III 2x0002024 15:3:440 2x0002024 15:3:54 17/002024 15:1:2:42 17/002024 15:1:3:3 17/002024 15:0:1:07 17/002024 15:0:107 17/002024 15:0:107 17/002024 15:0:107 17/002024 15:0:107 17/002024 15:0:10 17/002024 15:0:10 17/002024 15:0:10 17/002024 15:0:20 17/002024 15:0:20 17/002024 15:0:24 17/002024 15:0:24 17/002024 15:0:24 17/002024 15:0:24	III 100h 30m 30m 100h 40m 10m 100h 50m 10m 100h 50m 10m 100h 50m 50m
Pump single/twin Pump 1serial number Battery backup unit Pump station type Location ALARM SYSTEM Serial number Delta ecustomer Delta ecustomer Delta ecustomer Service interval Last service Service due	800 Twin Va0001 Va0002 No Va Deta Pumps Demo Room ND3yldk/Ekl Kevin Dodds Registered Pump Servicing Partner, Deta Membrane Systems Limited 12 -	III X 6. Darking Long 100% V 9. Darking Long 100% X 4. Connections Fishers X 2. Name Fashers X 1. NingLoond Alem X	III 2x000204153x40 2x000204153x40 2x000204153x40 170002041513x1 17000204150107 1700020445030 1700020445030 1700020445030 1700020445030 1700020445030 1700020445030 1700020445030 1700020445030 1700020445020	III 1003 36m 30a 1003 46m 10a 1005 40m 10a 0h 60m 02a 0h 60m 10a
Pump single/twin Pump 1serial number Battery backup unit Pump station type Losston Belal number Delta customer Delta servicing partner Service Internal Last service Bervice due	B00 Twin Va0001 Va0002 No V3 Delta Pumps Demo Room NDälyldk/Ekl Kevin Dodds Registered Pump Servicing Partner, Delta Membrane Systems Limited 12 -	Image: Construction of the construction of	III 2x0002024 15:3:440 2x0002024 15:3:440 17/002024 15:12:42 17/002024 15:10:42 17/002024 15:0:107 17/002024 15:0:107 17/002024 15:0:107 17/002024 15:0:107 17/002024 15:0:20 17/002024 15:0:20 17/002024 15:0:20 17/002024 15:0:20 17/002024 15:0:20 17/002024 15:0:20 17/002024 15:0:4 17/002024 15:0:4 17/002024 15:0:4 17/002024 15:0:4 17/002024 15:0:4 17/002024 15:0:4 17/002024 15:0:4 17/002024 15:0:4 17/002024 15:0:4 17/002024 15:0:4	III 1528 36m 30x 1528 46m 30x III28 46m 30x III28 46m 10x III28 46m 10x III28 46m 10x III28 46m 10x III 500 00x III 500 00x IIII 500 00x III 500 00x
Pump single/twin Pump 1serial number Battery backup unit Pump station type Location ALARM SYSTEM Berlal number Delta customer Delta servicing partner Service interval Last service Service due KEYHOLDER 1 Kerbolder pame	B00 Twin Va0001 Va0002 No V3 Delta Pumps Demo Room NDBlytak/Ekt Kevin Dodds Registered Pump Servicing Partner, Delta Membrane Systems Limited 12 - 17/09/2025	B Balay Long 10% S. Balay Long 20% S. Balay Long	III 2x0002024 15:35:49 2x0002024 15:35:49 2x0002024 15:15:3 170002024 15:15:3 170002024 15:15:3 170002024 15:15:3 170002024 15:15:3 170002024 15:15:3 170002024 15:35:3 170002024 15:35:13 170002024 15:25:1 170002024 15:25:3 170002024 15:25:4 170002024 15:25:4 170002024 15:25:4 170002024 15:25:4 170002024 15:25:4 170002024 15:25:4 170002024 15:25:4 170002024 15:25:4 170002024 15:25:4 170002024 15:25:4 170002024 15:25:4	Image: Control of the second
Pump single/twin Pump 1serial number Pump 2 serial number Battery backup unit Pump station type Location ALARM SYSTEM Serial number Delta sustorer Delta servicing partner Service interval Last service Service due KEYHOLDER 1 Keyholder name Email address	B00 Twin Va0001 Va0002 No Va Delta Pumps Demo Room NDälytäk/Eki Kevin Dodda Registered Pump Servicing Partner, Delta Membrane Systems Limited 12 - 17/09/2025 General Manager	III III IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	III 2x0002024 15:34.40 2x0002024 15:35.40 2x0002024 15:05:35 17/002024 15:01:07 17/002024 15:01:07 17/002024 15:01:07 17/002024 15:01:07 17/002024 15:01:07 17/002024 14:02:00 17/002024 14:02:00 17/002024 14:02:01 17/002024 14:02:01 17/002024 14:02:04 17/002024 14:02:04 17/002024 14:02:04 17/002024 14:02:04 17/002024 14:02:04 17/002024 14:02:04 17/002024 14:02:04 17/002024 14:02:04 17/002024 14:02:04 17/002024 14:02:04 17/002024 14:02:04 17/002024 14:02:04 17/002024 14:02:04 17/002024 14:02:04 17/002024 14:02:05 17/002024 14:02:05 17/002024 14:02:05 17/002024 14:02:05	Image: Control of the second
Pump single/twin Pump 1serial number Pump 2 serial number Battery backup unit Pump station type Location ALARM SYSTEM Serial number Delta scuttomer Delta scuttomer Delta scuttomer Delta service gervice due KEYHOLDER 1 KeyHolder name Email address	B00 Twin Va0001 Va0002 No Va Deita Pumps Demo Room NDälyldk/Ekl Kevin Dodds Registered Pump Servicing Partner, Delta Membrane Systems Limited 12 - 17/09/2025 General Manager Managergideltamembranes.com 0190275252	III X 8. Stating Long 100% V 9. Stating Long 100% X 4. Connection Failure X 2. Name Failure X 1. Name Kane	III 2x0002024 15:34.40 2x0002024 15:35.40 17/002024 15:12:42 17/002024 15:12:42 17/002024 15:10:7 17/002024 15:0:107 17/002024 15:0:107 17/002024 15:0:107 17/002024 15:0:107 17/002024 15:0:107 17/002024 15:0:107 17/002024 15:0:107 17/002024 15:0:107 17/002024 15:0:11 17/002024 15:0:14 17/002024 15:0:24 17/002024 15:0:30 17/002024 15:0:30 17/002024 15:0:30 17/002024 15:0:31 17/002024 15:0:30 17/002024 15:0:30 17/002024 15:0:31 17/002024 15:0:30 17/002024 15:0:30 17/002024 15:0:30 17/002024 15:0:31 17/002024 15:0:31 17/002024 15:0:31 17/002024 15:0:31	III 100h 30m 30a 100h 30m 30a 100h 40m 18a 100h 40m 18a 10h 40m 18a 10h 40m 18a 10h 60m 18a 0h 60m 18a 0h 60m 10a
Pump single/twin Pump Iserial number Pump 2 serial number attery backup unit Pump station type Location ALARM SYSTEM Berla number Petra customer Petra customer Petra servicing partner Berlice ture Berlice due Berlice due KEYHOLDER 1 Cayholder name Email address Mobile phone	B00 Twin Va0001 Va0002 No Va Deta Pumps Demo Room ND3lyldk/Ekl Kevin Dodds Registend Pump Servicing Partner, Deta Membrane Systems Limited 12 - 17/09/2025 General Manager Manager@detamembranes.com 01992523623	III X 6. Stating Long 100% V 9. Stating Long 100% X 4. Connection Failure X 2. Name Failure X 1. Frigh Long Alamn	III 2x000204 15:3x40 2x000204 15:3x40 2x000204 15:12x42 17/002024 15:01:07 17/002024 15:01:07 17/002024 15:01:07 17/002024 15:01:07 17/002024 15:02 17/002024 14:03:00 17/002024 14:03:00 17/002024 14:03:00 17/002024 14:03:04	III 100a 36m 30a 100a 36m 30a 100a 46m 18a 0a 46m 18a 0b 46m 18a
Pump single/twin Pump 1serial number Battery backup unit Pump station type Coastion Exaction Exaction Berial number Delta customer Delta servicing partner Berize interval Last service Bervice due KEYHOLDER 1 Keyholder name Email address Vobile phone KEYHOLDER 2	eoo Twin Va0001 Va0002 No Va Delta Pumps Demo Rosm NDäryksk/Ekt Kevin Dodds Registered Pump Servicing Partner, Delta Membrane Systems Limited 12 - 17/09/2025 General Manager Manager@deltamembranes.com	III III III IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	III 2x0012024 15:3X49 2x0012024 15:3X49 2x0012024 15:13:32 170802024 15:01:53 170802024 15:01:53 170802024 15:01:53 170802024 14:01:07 170802024 14:01:07 170802024 14:01:07 170802024 14:01:03 170802024 14:02:04 170802024 14:02:04 170802024 14:02:04 170802024 14:02:04 170802024 14:02:04 170802024 14:02:04 170802024 14:02:04 170802024 14:02:04 170802024 14:02:04 170802024 14:02:04 170802024 14:02:04 170802024 14:02:04 170802024 14:02:04 170802024 14:02:04 170802024 14:02:04 170802024 14:02:04 170802024 14:01:01 170802024 14:01:06	Image: Control of the second
Pump single/twin Pump 1serial number Battery backup unit Pump station type Location ALARM SYSTEM Berlal number Delta customer Delta servicing partner Service interval Last service Service due Keyholder name Email address Mobile phone KEYHOLDER 1 Keyholder name	B00 Twin Va0001 Va0002 No Va Deba Pumps Demo Room ND3yldk/Ebi Kevin Dodds Registered Pump Servicing Partner, Deba Membrane Systems Limited 12 - 17/709/2025 General Manager Manager@detamembranes.com	III III IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	III 2x0002024 15:35:40 2x0002024 15:35:40 17002024 15:12:42 17002024 15:15:3 17002024 15:15:3 17002024 15:15:3 17002024 15:15:3 17002024 15:15:3 17002024 15:15:3 17002024 15:31 17002024 14:32:31 17002024 14:32:31 17002024 14:32:34 17002024 14:32:41 17002024 14:32:44 17002024 14:32:44 17002024 14:32:41 17002024 14:32:41 17002024 14:32:41 17002024 14:32:41 17002024 14:32:41 17002024 14:32:44 17002024 14:32:45 17002024 14:32:45 17002024 14:32:45 17002024 14:32:45 17002024 14:32:45 17002024 14:32:46 17002024 14:32:46 17002024 14:32:46 17002024 14:32:46 17002024 14:30:46 17002024 14:30:46 17002024 14:30:46 17002024 14:30:46 17002024 14:30:46 17002024 14:30:46	Image: Control of the second

8.3.1 Register a new device

To add a new device to your account press **Register a device**. Type the serial number from the box.

DELTA 🗖			DEVICES	REGISTER DEVICE	BOOK VISIT	CONTACT	HELP	MY ACCOUNT
Deviator Devia								
Register Device								
Enter Serial number	ND8iyIDKvEkl							
Continue								
		Technical support: 0	1992 523 523 info@deltamem	branes.com				
		© 2024	Delta Membrane Systems Ltd					

8.3.2 Book a visit

You can Book a visit for a service or a non-urgent callout. All contact details for the service company are available in the portal.

DELTA 🗖		DEVICES	REGISTER DEVICE	BOOK VISIT	CONTACT	HELP	MY ACCOUNT
Book a visit							
Serial number		Service Company					
Visit type Preferred date*	Service Non-urgent callout	You must select a	service partner				
Preferred time*]					
Contact name	Homeowner/property Owner/ Facilities Manager]					
Contact telephone	01992 523 523]					
Contact email	Delta HLA Owner @ Delta Pumps]					
Comments							
	Book visit						

8.3.3 Contact your Service Partner

		Hello Homeowner/property Owner/ Facilities Manager Sign o
DELIA		DEVICES REGISTER DEVICE BOOK VISIT CONTACT HELP MY ACCOUNT
Contact Us		
Contact name	Homeowner/property Owner/ Facilities Manager	You must select a service company for your device before proceeding
Contact telephone	01992 523 523	
Contact email	HLAPlus	Telephone:
Message		Office hours: Monday to Friday 8.30am – 5.30pm
	Send message	
	Technical supp	port: 01992 523 523 info@deltamembranes.com
	0	2024 Delta Membrane Systems Ltd

8.3.4 Account changes

You can make any changes to keyholders, passwords, email and phone numbers.

DELIAO			DEVICES	REGISTER DEVICE	BOOK VISIT	CONTACT	HELP	MY ACCOUNT
	_							
		Update personal details	Update device	details				
Update pe	rsonal details							
Email address*	HLAPlus Homeowner @ gmail.com							
Password is optional if stage if would would like	you would like to proceed as a guest. You can click the Reset N e to access your account.	ly Password link at a later						
Password								
Confirm password								
Title*	Mr							
First name*	Homeowner/property Owner/Facilities Manager							
Surname*								
Phone*	01992 523 523							
Address lookup	Enter postcode or any part of address to search							
Company								
Address line 1*	Unit 6, Merlin Way							
Address line 2	North Weald							
Town*	Epping							
County	Essex							
Postcode*	Essex							
Country*	United Kingdom							

8.3.5 Changing a service partner

If you decide to change your service partner, you will need to log onto your account. Click on the request change of service partner.

DELTA 🗖		DEVICES	REGISTER DEVICE	HELP	MY ACCOUNT
Property owner	Delta Customer, Delta Membrane Systems Ltd				
Site address	Merlin Way				
	North Weald				
Town	Epping				
County	Essex				
Postcode	Essex				
Phone					
Email					
	Dalla DMO 500, Dalla LII A Dive Intelligent Convertington				
Product type	Deita - Dins 538 - Deita HLA Plus intelligent Groundwater				
Water type	Surface / Ground V				
Chamber diameter (mm)	800				
Pump single/twin	Twin 🗸				
Pump 1serial number	V3000013				
Pump 2 serial number	V3000014				
Battery backup unit	Yes 🔿 No 🛞				
Pump station type	V3 •				
Location	Plant room				
AL ADAL OVOTEN					
ALARM SYSTEM					
Serial number	xvtMjginaEtK				
Delta customer	Delta Customer, Delta Membrane Systems Ltd				
Delta servicing partner					
Service interval	12 Months				
Last service					
Service due	17/09/2025				

Please select the registered service partner from the list of options. If they are not on the list, we will review your requested partner. Please note regular servicing of your device is part of the Warranty agreement.

- Your old service partner will be told you have selected a new partner.
- The new partner will also be notified.
- The installing contractor will also be notified as they issue the warranty for the pump station.

8.3.6 Moving house

When moving house, you will need to get the new homeowner to set up an account. Once this is set-up, they need to add the serial number to their account. They will then get the following message.

			CONTROL	nee		
If this is your pump, login to the account the pump is registered to to view details.						
deltamembrane	<u>ies.com</u>					
tems Ltd						
1	<u>leitamembrar</u> tems Ltd	ielfamembranes.com tems Ltd	leffamembranes.com tems Ltd	ielfamembranes.com tems Ltd	ielfamembranes.com tems Ltd	

Click on the link: Request previous owner to transfer details to you.

The transfer process will then be started, and you will need to accept the transfer of device. This will be sent in an email. Once you have approved the request the device will be removed from your dashboard and you will no longer have access to it.

8.3.7 Adding or changing key holders

All key holders will receive email alerts when fault conditions are detected by the Delta HLA Plus.

To add a new key holder, click **Add Key Holder** and enter their details, then press **Update device details**.

To change an existing key holder's details, edit the appropriate fields and click **Update device details**.

Key holders do not have access to the Delta Pumps App dashboard.

			Hello Homeo	wner/property Ow	ner/ Faciliti	es Manager <u>Sign ou</u>
DELTA 🖉	DEVICES	REGISTER DEVICE	BOOK VISIT	CONTACT	HELP	MY ACCOUNT
t service	01/11/202	4				
vice due	01/11/202	5				
HOLDER 1						
holder name	Jane Smith					
ail address	jsmith@ho	me.com				
bile phone	07123 1234	156				
HOLDER 2						
holder name	David Smith	ı				
all address	dsmith@hc	me.com				
bile phone	07123 1234	457				
HOLDER 3						
holder name	Peter Smith	1				
ail address	psmith@hc	me.com				
bile phone	07123 1234	158				
Add Key Holder						
		_	Undate device de	taile		
			opuate device de	tuno		

9. Maintenance



DANGER

Do not open this unit if not qualified to do so. To reduce the risk of electric shock, do not remove cover. No user-serviceable parts inside.

Ē.	

WARNING

All maintenance works (inspections and services) MUST be undertaken by a technically qualified/competent company/engineer with specific training on the device.



DANGER

Before carrying out any maintenance work the system MUST be completely disconnected from the mains power supply, and measures should be taken to prevent the system from being inadvertently switched back on.



WARNING

When undertaking works within the chamber/sump suitable measures MUST to taken to ensure safe access in accordance with current safety regulations.

9.1 Servicing guide

The product should be inspected quarterly.

Perform the following:

- Operate the TEST button (see Section 6.1.1.)
- Check HLA float switch manually trigger the float switch to test the functionality of the high level alarm.
- Inspect all cables for signs of wear and tear.

When installed in conjunction with a pump system, please refer to the product installation and operating guidelines for pump station maintenance requirements.

In addition to the above it is important that the product undergoes a full service at a minimum frequency of once yearly (increased servicing frequency is subject to site and product specific details. Where a product is serving more than a single residential dwelling and/or there is a risk of flooding as a result of product failure the servicing frequency should be increased accordingly).

To arrange a service please contact Delta Membranes on 01992 523 523 between 8am and 5pm, Monday to Friday or by email at info@deltamembranes.com for more information.

Delta Membrane Systems Ltd recommends all pumps, alarms and associated products are serviced by a Delta Registered Pump Service Provider.

Please replace both the internal batteries every two years.

9.2 Cleaning the device

Clean the device with a dry non-abrasive cloth. Do not allow the device to become wet. Do not use solvent cleaners.

10. Fault finding

Problem	Cause	Solution
High Level Alarm is constantly sounding	Damaged float cable	Repair float cable
High Level Alarm is constantly sounding	Faulty float switch	Replace float switch
High Level Alarm is constantly sounding	Incorrect wiring	Check that the correct core colours are wired in.
High Level Alarm is constantly sounding	Pump has failed and station is at high level	Contact Delta Membranes on 01992 523 523 for further assistance
High Level Alarm is sounding before the pump activates	Float level set incorrectly	Raise the height of the HLA float switch so it activates higher than the activation point of the primary pump
No volt free output to external devices	Signal cable is connected to the incorrect NO/NC contact	Move signal cable to the correct contact
No power LED lit	No mains power to the system and the battery not connected	Check the mains power supply in from the distribution board and connect the battery
Power LED flashes red continuously	There is a battery fault or the battery is not connected	Disconnect from mains then open the panel and connect the battery to the PCB board. If the battery is connected, replace the battery. Contact Delta Membranes on 01992 523 523 for further assistance.
COMMS button is red	Your device has been set up to work as a standalone device without connection to the Delta Pumps App	If this is correct take no action. If you would like to connect to the Internet see Section 4.
COMMS button is red	Your property's Internet connection has failed	Check your property's Internet connection. Once your property's Internet connection has been restored, the device will auto-reconnect.
COMMS button is red	Your local Wi-Fi or Ethernet details have changed.	Reset the device's Internet connection. See Section 4.

If you continue to experience problems, please contact Delta Membranes on 01992 523 523 between 8am and 5pm, Monday to Friday or by email at info@deltamembranes.com for more information.

11. Ancillaries

Only use Delta Membranes System Ltd approved replacement parts and ancillaries..



12. Warranty



12.1 Standard 12-month component warranty

The Delta HLA Plus is offered with a 12-month component warranty from the date of invoice.

Standard Delta Membrane Systems Limited conditions apply.

This warranty does not cover defects caused by incorrect installation, installation/installer error, abnormal working conditions, misuse, or neglect.

Any defects or malfunctions should be reported to Delta Membrane Systems Limited within of seven days when defect becomes apparent. All broken components should be returned to Delta Membrane Systems Limited at customer cost.

To make a Warranty Claim, please email pumps@deltamembranes.com. Forms are available from www.deltamembranes.com.

In no event shall Delta Membrane Systems Limited be liable for any consequential damage, penalties, loss, or expenses howsoever arising, out of or in connection with incorrect installations or misuse, including, without limitation, direct or indirect loss, consequential loss or damage, loss of profit or goodwill, loss arising from any errors or omissions in the pump chamber as a result of, incorrect installation, installation/installer error, abnormal working conditions, misuse, or neglect.

Delta Membrane Systems Limited shall not accept liability if the product fails due to being incorrectly specified by any third parties not employed by Delta Membrane Systems Limited.

12.2 Warranty from date of commissioning

When the Delta HLA Plus is commissioned by a Delta Registered Pump Service Provider, the 12-month warranty period shall start from date of commissioning, provided:

- all services and associated systems are ready to enable commissioning to take place;
- the Delta HLA Plus is commissioned within 12 months from the date of invoice;
- the Delta HLA Plus is commissioned by a Delta Registered Pump Service Provider;
- the Delta Registered Pump Service Provider has logged Commissioning details of the Delta HLA Plus with Delta Membrane Systems Limited;
- the Delta HLA Plus is serviced by a Delta Registered Pump Service Provider with a minimum of a yearly Service (within 12 months from the date of commissioning/last service) depending on site specifications.



Figure 26. Mounting template.

14. Commissioning details

Property address	Commissioning engineers

Customer contact details				
Contact name				
Contact telephone				

Installation details		
Equipment installed		
Delta Registered Pump Service Provider		
Date of commissioning		
Commissioning engineer		
Signature of engineer		

Servicing plans

Sump pumps must be maintained. We recommend a qualified engineer examines and services equipment every year. Pumps running frequently due to higher water table, water drainage, or weather conditions should be examined more frequently, we recommend every 6 months. Sump pumps, being mechanical devices, may fail if not maintained which could lead to a flooded basement and costly repairs. Regular servicing of sump pumps will increase efficiency and extend the life of the pump. All Delta Membrane pump systems can be maintained and serviced by our recommended service companies or installing contractor.

Commissioning

All sump pumps require commissioning. Commissioning provides peace of mind, knowing that the system is installed correctly and in compliance with warranty conditions. All Delta Membrane pump systems can be commissioned by our recommended service companies or installing contractor.

15. Service record

Service date	Servicing company	Engineer	Notes

Delta Membrane Systems Ltd, Delta House, Merlin Way, North Weald, Epping, Essex, CM16 6HR. 01992 523 523 info@deltamembranes.com www.deltamembranes.com f deltamembranes fin delta-membrane-systems-ltd Educational deltamembranesystems

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