

## Clearline Aura Compatibility Guide

This document outlines various options for retrofitting Clearline Aura to existing solar heating installations. We recommend the electrical work to be carried out by a competent person.

### Identify your version of controller

Before retrofitting Clearline Aura, you need to check and identify your electronic solar controller. They can be categorised in to 4 groups:-

#### **Type A, Serial No > 4000**

*Fully compatible with Aura*

Clearline V210 Grey Controller with Serial Number 4000 or above.



#### **Type A, Serial No <4000**

*(Refer to Page 2)*

Clearline V210 Grey Controller with Serial Number below 4000.



#### **Type B**

*(Refer to Page 5)*

Clearline Black Controller



#### **Type C**

*(Refer to Page 5)*

Clearline V210 White Controller



NOTE: The serial number is found on a label on the inside of the metal enclosure cover for a V200 or V260 pump station. For a stand-alone controller, it is on a sticker on the rear, so the controller needs to be dismantled from the wall to check.



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**Type A with Serial No <4000**

These controllers need a software upgrade. The simplest approach is to replace the controller.

Viridian offers a replace and return upgrade service where a pre-owned replacement controller with the new software is provided free of charge if the current controller is returned in the reply-paid package.

***Order Clearline Aura Exchange Kit, product code V214.***

Follow the instructions below to replace the controller.

Alternatively, a software upgrade could be performed by a Viridian Solar technician as part of a general maintenance visit. This option might be more cost-effective for customers wishing to install Aura into a number of properties.

## Replacing the Controller

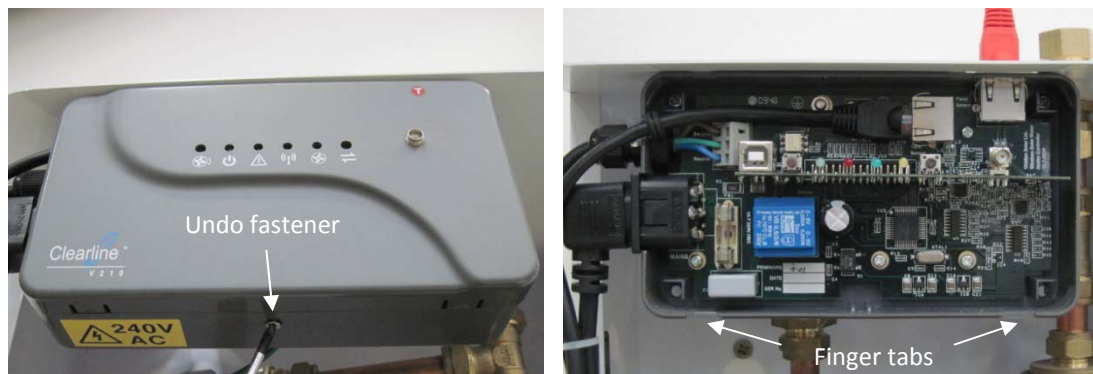
Viridian will send you a controller with the latest firmware. Replace the new controller and return the old one in a postage-paid package.

### STEP 1

Switch off the power supply to the controller

### STEP 2

Open the front cover. Undo the small screw at the bottom and then remove the front cover by pressing finger tabs at the bottom.

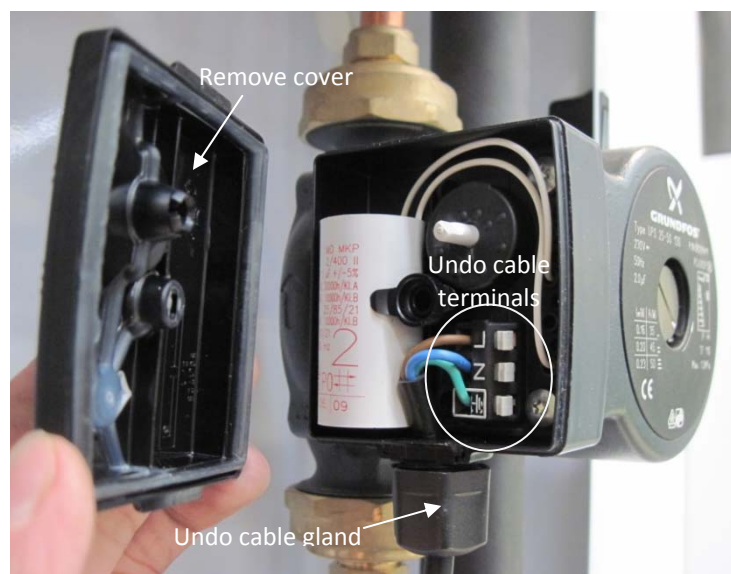


### STEP 3

Remove all wiring connections: - panel sensor, cylinder sensor, mains IEC socket and pump connection. We recommend the latter to be carried out by a competent person.

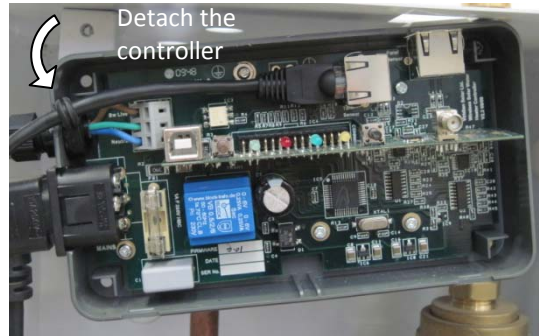
To undo the pump connection: First, remove the pump cover. Second, undo the cable gland. Third, undo the cable terminals. Please note that cable terminals are clearly marked as:-

- L (Live – Brown)
- N (Neutral – Blue)
- $\equiv$  (Earth - Yellow/Green strip)



**STEP 4**

Remove the controller from either metal enclosure (if part of a V200 or V260 pump set) or wall mountings (if installed separately). This can be done by undoing screws at corners.



**STEP 5**

Replace the new controller by repeating Steps 2 to 4 in a reverse order. The new controller will come with two pre-assembled cables; one is for the pump connection, and the other is for cylinder sensor.

## Types B and C

These controllers are not compatible with Clearline Aura and must be replaced with a new controller.

### ***Order Clearline Aura Upgrade Kit, product code V213.***

For Type B, there is no need to remove old controller from metal enclosures for V200 and V260 systems. Once you receive the Upgrade Kit, simply install the new controller next to the pump station and re-route the wiring connections.

For Type C, you may consider removing the old controller and replacing the new controller so that the installation remains neat and tidy.

### STEP 1

Switch off the power supply to the old controller

### STEP 2

Remove all wiring connections, i.e. panel sensor, cylinder sensor, mains cable and pump connection.

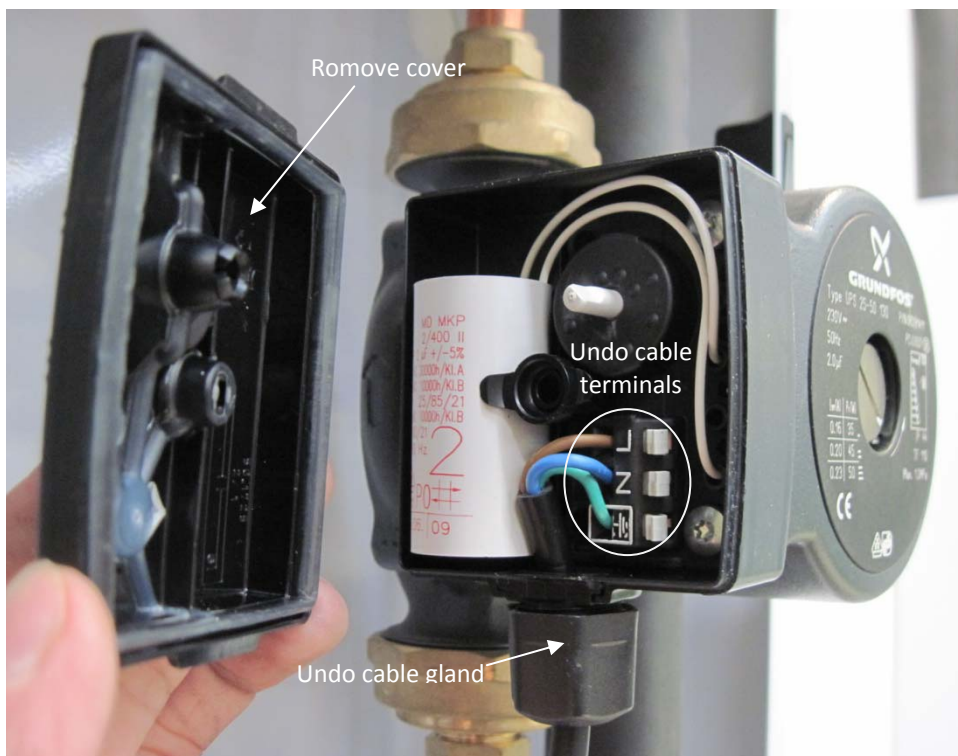
Depending on the type of domestic hot water system, the mains cable is either connected to a high limit thermostat (for pressurised hot water cylinder) or directly to a 3-pin wall plug (for non-pressurised hot water cylinder). The former should be removed by a competent person.



We recommend the removal of pump connection to be carried out by a competent person. Remove all wiring connections: - panel sensor, cylinder sensor, mains IEC socket and pump connection.

To undo the pump connection: First, remove the cover. Second, undo the cable gland. Third, undo the cable terminals. Please note that cable terminals are clearly marked as:-

- L (Live – Brown)
- N (Neutral – Blue)
- $\perp$  (Earth - Yellow/Green strip)

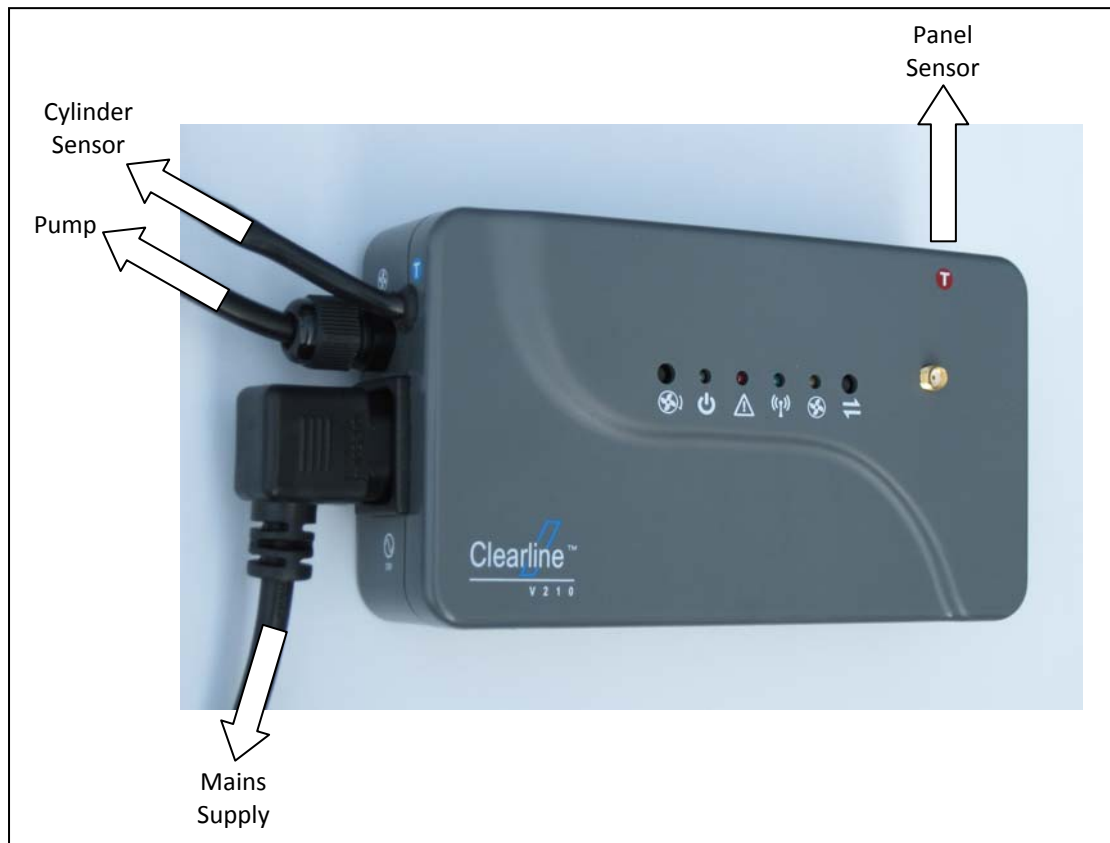


### STEP 3

Mount the new controller next to the pump station. You may gain access to four mounting holes inside the controller by opening up the front cover. Make sure that the location would not compromise the strength of wireless signal. For example, do not locate the new controller inside a metal box.

**STEP 4**

Reroute all wiring connections according to the following schematic.



**STEP 5**

Switch on the power supply to the new controller. Make sure that there is no error message. The controller is now compatible with Clearline Aura.