

# ELECTRICAL INSTALLATION MANUAL

## UltraClear

### WASTE WATER TREATMENT SYSTEMS

#### MODELS - ST10, ST8 & Commercial Systems

#### ELECTRICAL CIRCUIT SPECIFICATIONS ULTRA CLEAR AWTS

(For use with plastic turret; float switch for high water)

**IMPORTANT: This manual must be given to your electrician with the control box and the alarm panel. Must be installed by a licensed electrician.**

**The Ultra Clear AWTS warranty will be void if these Specifications are not adhered to.**

The power source circuit is to be connected to a dedicated single phase plus earth circuit, protected by a 15 amp MINIMUM circuit breaker of 8Ka and marked as **ULTRA CLEAR**. Minimum cable size 2.5mm TPS to connect to the supply.

The alarm panel is a low voltage device (12 volt data) that decodes a data signal from the main control box at the treatment tank. The alarm cable may be run in the same conduit, although this is a low voltage circuit. It is normal practice to use 1mm squared twin TPS if the alarm plate conductor is in the same conduit as the power feed.

All conduit joints must be glued, and 25mm flexible conduit used to enter the equipment housing. The conduit must be looped with a weep hole at the lowest point to allow any water that may accumulate within the conduit to drain before entering the electronic controller enclosure. Water ingress will void warranty.

The alarm panel is powered by 12 volt data. When testing alarm allow 1 minute for audible response.

The alarm panel has three LEDs. **Under normal operating conditions, the green power led will light.** To test alarm disconnect air blower, and led will flash blue on control box and red on alarm plate.

The air blower and irrigation pump outlets are interchangeable. The micro computer can analyse the current being consumed from any outlet, and distinguish where the blower is to monitor its alarm. The low voltage alarm circuit is not polarity sensitive and may be connected any way around.

There is a 15 amp fast blow fuse to protect the pumps. Should the fuse holder lamp be lit, the fuse is open circuit. A spare fuse is supplied under the controller enclosure cover, together with photos of correctly terminated cabling to the control unit and alarm plate.

**NOTE:** Electrical work must be carried out in accordance with A.S. 3000 and appropriate Supply Authority Rules. A "Notification of electrical work" certificate must be lodged with the Supply Authority for your wiring.

### **WARNING**

#### **Water resistant control box IP55**

**Power supply to be made on external points of control box only  
The intrusion of control box will void warranty**

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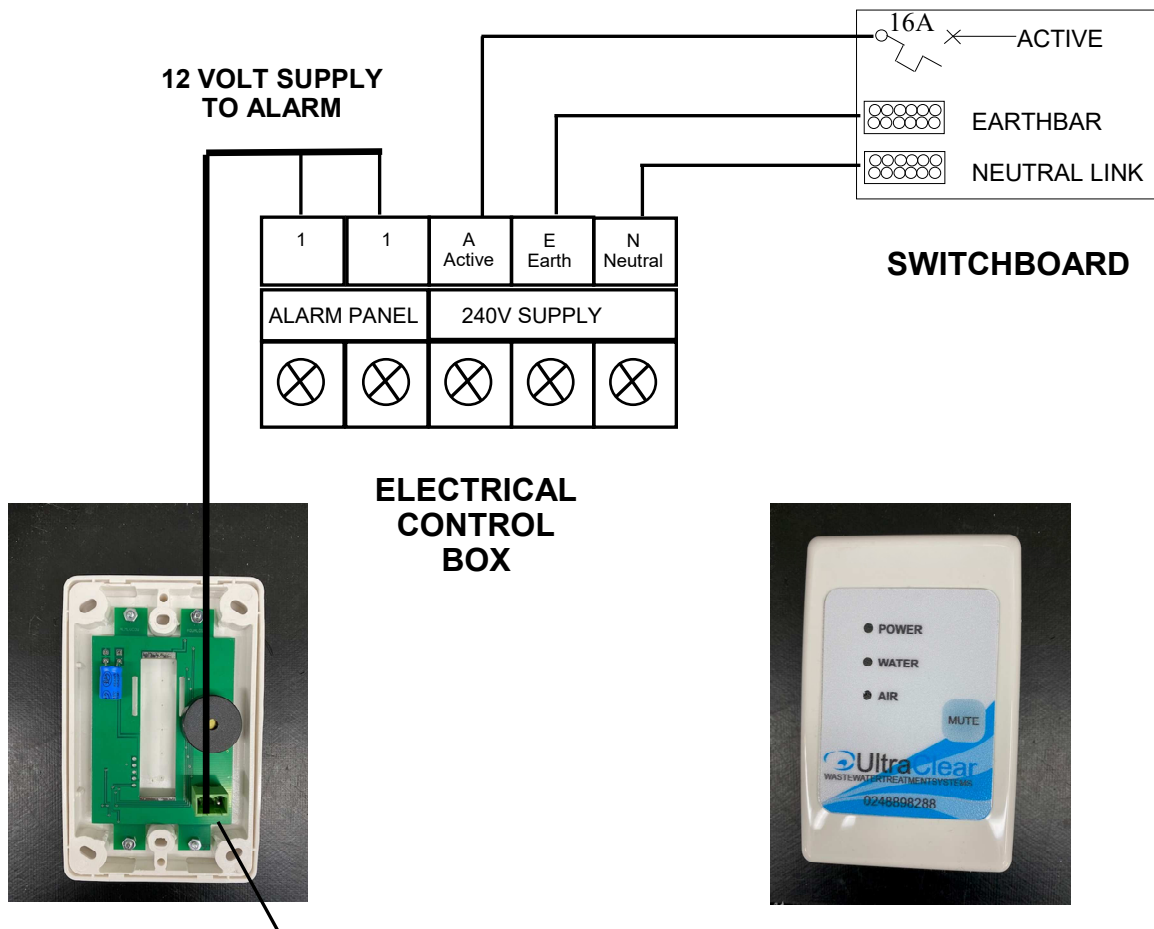
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**GREEN INPUT TERMINAL BLOCK**  
battery not required for domestic use

**BACK VIEW**

**FRONT VIEW**

**ALARM PANEL FITTED IN HOUSE**

**Ultra Clear** WASTEWATER TREATMENT SYSTEMS  
**ELECTRICAL CONTROL SYSTEM**  
DRAWING NOT TO SCALE