

Fault Finding

DVS Washroom Control - VR07-002

- **No Power - No Lights showing on display or internally on PCB**
 - Check ribbon cable is fully connected to lid and PCB. (ref: item 14 on Washroom Wiring Guide).
 - Test fuse in switched spur. Replace if blown. Note: DVS recommend a 3 amp fuse. Replace any fuses that are incorrect.
 - Test internal primary fuse (Ref: item 11 on Washroom Wiring Guide) If blown ensure replaced with the correct type of fuse – T160 mA L250v (DVS part no. PP00-102) Fuse failure can be caused by the wrong size fuse fitted in Switched spur.
 - Test internal secondary fuse (ref: item 15 on Washroom Wiring Guide). If blown ensure replaced with the correct type – TR5 F500mA (DVS part no. PP00-101) Fuse failure can be caused by a short circuit. Check wiring to ensure there are no stray wires causing a short before changing the fuse.
- **Sensors acting erratically.**
 - Check ribbon cable is fully connected to lid and PCB. (ref: item 14 on Washroom Wiring Guide).
 - Ensure there are no reflective surfaces directly opposite a sensor.
 - Hi-Vis clothing can trigger the sensors.
 - Direct sunlight can blind a sensor and stop it working temporally. Ensure the sensors are not being affected by sunlight.
 - Check sensor connections to ensure there are no stray wires that may be causing a short.
 - Check sensor connections to ensure the terminals are not clamped down on to the cable sheathing.
- **Sensor operates wrong outlet**
 - Check sensor and solenoid valve are connected to the correct terminal:
Shower – ref: terminals 1 & 5 on wiring diagram
Cold Basin – ref: terminals 2 & 6
Hot Basin – ref: terminals 3 & 7
WC – ref: terminals 4 & 8 (full flush) 9 (half flush)
- **WC flushing for half the set time.**
 - WC Sensor plugged into half Flush terminal. Re-connect sensor plug into Full flush terminal (ref: terminal 8)
- **Poor flow from Solenoid valves.**
 - Check site water pressure. The standard plastic 12v solenoid valves require a minimum of 1 bar dynamic pressure. Lower pressures will result in poor flow or erratic operation. For site pressures lower than 1 bar, please call DVS Technical for further advice.
 - Check filters in TMV, solenoid valve and outlets for debris that could be restricting the flow.

If the list above does not help to resolve the issue, please call DVS Technical for further assistance.

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Washroom Control System Wiring Guide

Board Layout Model VR07-002

Below shows an image of the board layout to help assist you with the wiring.

Sensor Wiring



Valve Wiring

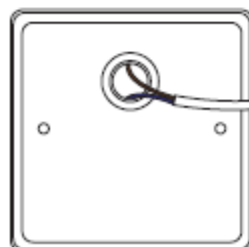
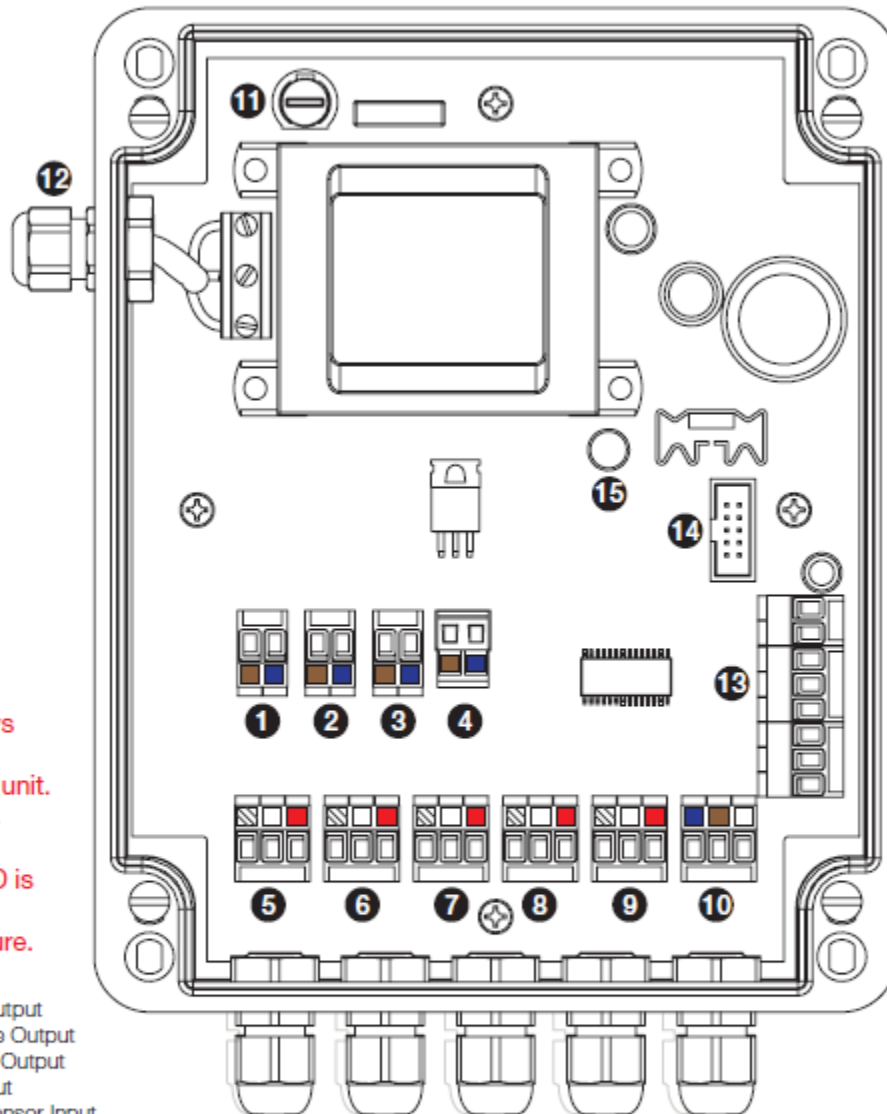


IMPORTANT: Always isolate power when opening the control unit. Mains power inside.

Ensure the RED LED is extinguished before entering the enclosure.

1. Shower Valve Output
2. Cold Water Valve Output
3. Hot Water Valve Output
4. Flushvalve Output
5. Shower Valve Sensor Input
6. Cold Water Valve Sensor Input
7. Hot Water Valve Sensor Input
8. Flushvalve Full Flush Sensor Input
9. Flushvalve Half Flush Sensor Input
10. Lockout Set / Reset Sensor Input
11. Fuse T160 mA L250v
12. Mains Supply
13. Expansion Terminals
14. Lid Display Panel Connection
15. Secondary Fuse TR5 F500 mA

Recommended - Sensor Cable Entry (front row conduits) and Valve Cable - Entry (back row conduits).



Key Switch (optional)
Rear



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