Step 14 : Parts List Continued

AC02 - 047 Tactile switch with 50mm stainless steel bezel and Red insert (Hot)

AC02 - 046 Tactile switch with 50mm stainless steel bezel and Blue insert (Cold)

SH00 - 001 Shower Sensor

AC02 - 040 Anti vandal WC wave on sensor with 50mm stainless steel bezel



VR00 - 006

VR00 - 005

Push sensor for backplates

Push sensor for backplates

Sanitaryware alternatives are detailed in our catalogue.

with Blue insert (Cold)

with Red insert (Hot)

The following sensors are specifically designed for use with the High Security basin and backplate.

VR00 - 002 Wave on sensor for backplates with Red insert (Hot)

VR00 - 001 Wave on sensor for backplates with Blue insert (Cold)



Head Office

Dart Valley Systems Ltd Kemmings Close, Long Road, Paignton, Devon TQ4 7TW UK

Contact Details

t:+44 (0) 1803 529021 f:+44 (0) 1803 559016 e:techsupport@dartvalley.co.uk w:www.dartvalley.co.uk



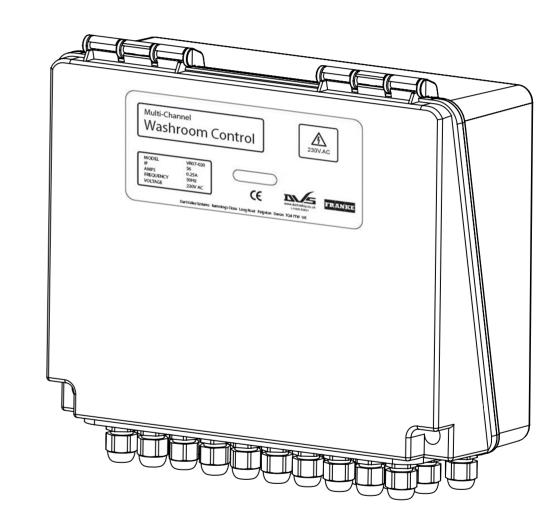




Multi-Channel Washroom Control System

Installation & Operating Instructions

VR07-020





Dart Valley Systems | Kemmings Close | Long Road | Paignton | Devon | TQ4 7TW | UK T +44 (0)1803 529 021 | F +44(0)1803 559 016 | www.dartvalley.co.uk | techsupport@dartvalley.co.uk

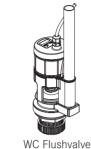


Step 2 : Parts Step 1: Safety First These instructions relate to the use of the Washroom Control System only, any external or 'add-on' parts will be supplied with separate instructions. The electrical part of the installation **MUST** be carried out by a gualified electrician in accordance with the latest electrical regulations. It is also recommended that any plumbing is carried out by a qualified plumber. This is a sophisticated electronic device which must be installed correctly to perform correctly. Children should be supervised to ensure that they do not play with the appliance.



IMPORTANT: Please read these instructions carefully and follow each stage in order!

Typical contents:



2" BSP (1 1/2" BSP Optional)



Anti-Vandal Sensor

Anti-Microbia Solenoid Valve

FFA

Washroom Control

System

*Not to scale

Instruction Manual x 1

Step 3 : Siting

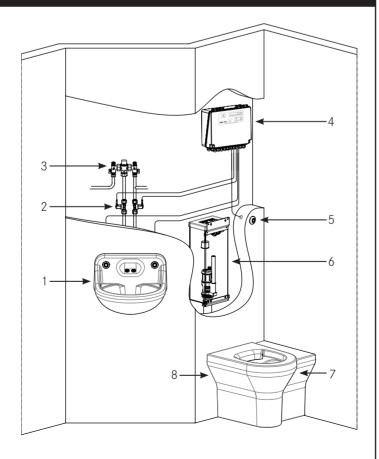
The Control System Box should be located in a dry location and not exposed to dirt, dust or damp. The unit should be accessible when required, but not within easy general reach of unauthorised persons.

It will be necessary to make adjustments and service the control unit after installation, and in the future. Secure access areas and duct spaces are recommended.

The control unit is not designed for direct surface mounting into washroom areas. Never open the cover with the supply live.

The routes that cables will take when connecting external equipment to the control unit should also be planned at this stage.

- 1. High Security Basin
- 2. Solenoid Valve
- 3. TMV Thermostatic Mixing Valve
- 4. Control Box
- 5. WC Flushing Sensor
- WC Flushvalve and Concealed Cistern 6.
- 7. Side in-fill (optional)
- 8. High Security WC Pan



Step 12: Chlorination

When all valves close normal operation will resume.

1 Minute

Repeat if further chlorination is required.

Set by Hand-Held Programmer (See below)



1, 2, 3, 4, 5, 10, 20 & 30 Minutes

Step 14 : Parts List

The following parts are compatible with the VR07 - 020 Washroom Control System. The actual parts supplied will vary according to the detail of the kit you have ordered.

VR07 - 020 Washroom Control System



AC04 - 016 Key switch for Washroom Control System

WC01 - 023 Slimline flushvalve with in-built overflow (2 inch base)

Slimline flushvalve with in-built

overflow (1 1/2 inch base)

WC01 - 022

Step 13 : End of Life Disposal



The use of this crossed out wheeled bin logo indicates that this product needs to be disposed of separately to any other household waste.

Within each of the European Union member countries, provisions have been made for the collection and recycling of unwanted electrical and electronic equipment. Outside of the EU it will be necessary to dispose of this product at your local community waste collection or recycling centre.

In order to help preserve our environment we ask that you dispose of this product correctly. Please contact your local city council for collection centre details.

XXXX-XXX Anti-Microbial Solenoid Valve

AC17 - 047 4 in 1 thermostatic mixing valve







High security basin with integrated backplate

VR01 - 030

VR01 - 010 High security WC pan

Other options:

VR01 - 017 Wall hung WC pan

VR01 - 011 Disabled height WC pan



| Step 9 : Automatic Purge | Step 10 : Lock Out |
|--|---|
| The automatic purge is enabled through the Front Panel Menu. The default setting is disabled. See Menu Settings guide (Step 7) for instructions on how to enable this feature. | The Lock Out feature is enabled through the Front Panel Menu. The default setting is disabled. See Menu Settings guide (Step 7) for instructions on how to enable this feature. |
| When the purge feature is enabled each channel (Flushvalve, Hot and Cold Water and Shower) is independently monitored. | When enabled the system monitors each channel (Flushvalve, Hot and Cold Water and Shower) independently in blocks of 15 minutes. |
| If a channel has been inactive for 24 hours a single operation of that channel will be carried out. | If 4 operations of a single channel are carried out within that 15 minute block the system will lock out that particular channel for the remainder of that block. |
| When a purge operation is carried out the time used for that operation will be the time set in the menu. | |
| Set by Hand-Held Programmer (See Step 7) | Set by Hand-Held Programmer (See Step 7) |
| | |
| | |
| | |

Step 11 : Optional Key Switch - Cancel and Reset

The optional key switch is used to cancel, disable and reset all options and needs to be ordered separately.

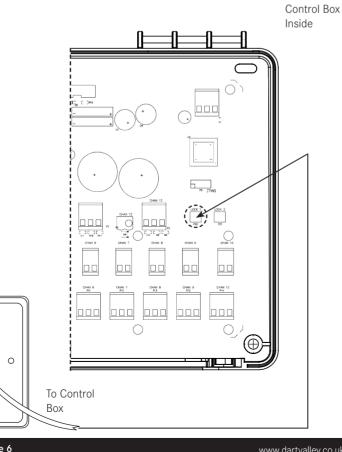
When key switch is ON for approximately 2 seconds all current operation is cancelled, all lockouts are cleared and purging is reset.

Normal operation is resumed by turning the key switch off.

The cancel feature is only available during 'normal' use, not during any other program routine.

Wiring Guide

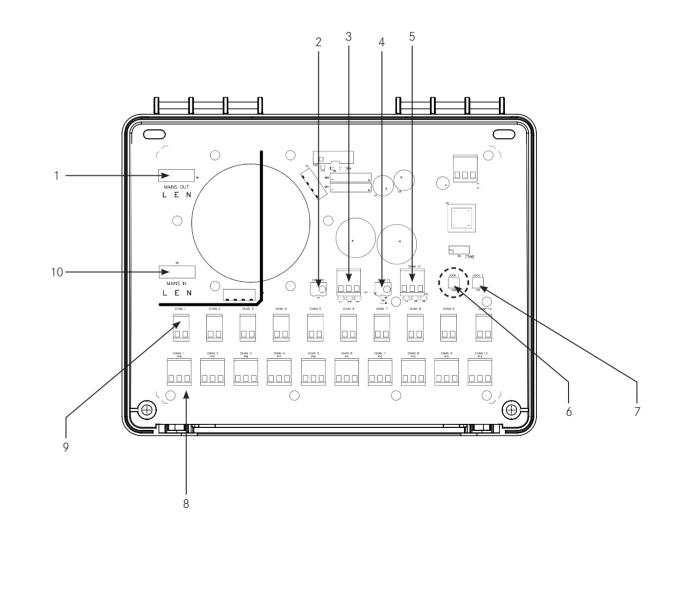
Connect the blue and brown lead from the key switch to the correct position on the connector plug as illustrated in the diagram.



Step 4 : Control Box - Board Layout

- 1. Mains Out
- 2. WC Valve Channel 11
- 3. WC Sensor Channel 11
- 4. WC Valve Channel 12
- 5. WC Sensor Channel 12
- 6. Lock Out Channel 1-5 & 11
- 7. Lock Out Channel 6-10 & 12
- 8. Sensor Channel's 1-10
- 9. Valve Output's 1-10
- 10. Mains In

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



 \cap

Safety

- CAUTION! 220-240V A.C.
- NEVER open the cover with the supply live.
- DO NOT extend cables.
- DO NOT leave badly fitted cables.
- DO NOT leave slack cables in the enclosure.
- DO NOT interfere with the mains flex.
- DO check all cables and connections.
- DO ask for advice if/when necessary.

Ensure the LED is extinguished before entering the enclosure.

Step 5 : Fixing and Wiring

The unit should be securely fixed in a suitable location in a vertical orientation with the glands pointing down, so that the front label can be read correctly.

Open lid to expose four fixing holes around the edge of the enclosure. These holes allow the fastening of the unit without removing the printed circuit board. Mark the wall through these fixing holes and fix the control unit with suitable fixings.

The mains supply should NOT be initiated until all external equipment has been installed and wired.

Connect the mains supply lead to a 230V a.c. supply via a fused spur, the fuse rating should be 3 Amps. (Not supplied)

Always read instructions supplied with external components and ensure that only the supplied equipment is connected to the control box.

Valve cables should enter the enclosure from Row 1, 2 or 3 of cable glands. The sensor cables should enter the enclosure through Row 1, 2 or 3 of cable glands. Keep all connections tidy and do not allow cable to finish or hang in the transformer area.

It is recommended that each cable is fed through the relative cable gland into the enclosure; the cable can then be pulled out towards the installer to allow for enough length of free cable for the plug to be fitted. The plug is disconnected from the mating socket; when wiring for a sensor ensure that the cables are connected correctly as per the label on the plug. For valves there is no polarity and so can be connected in any orientation. When each plug has been wired the cable can be pulled back through the cable gland, and the plug re-connected to the corresponding socket. Cables should not be left to torte or slack when secured by the cable gland.

When all connections are made and checked, replace the lid and secure.



- CAUTION! 220-240V A.C.
- NEVER open the cover with the supply live.
- DO NOT extend cables.
- DO NOT leave badly fitted cables.
- DO NOT leave slack cables in the enclosure.
- DO check all cables and connections.
- DO ask for advice if/when necessary.
- Make sure all Glands are secure

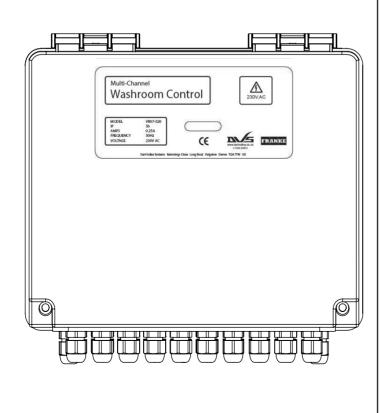
Step 6 : Power On

After all external equipment is installed, the mains supply can be connected.

When connecting to mains always make sure that the lid is tightly closed and secure.

NEVER open the cover with the supply live.

When the control unit is first powered on, the power light will illuminate to show that the control box is active.



Step 7 : Final Stage - Menu Settings Guide

| | DEFAULT SETTINGS | OPTIONAL SE |
|--|---|--|
| WAVE FLUSH VALVE MENU Flush Type Flush Time(s) Range Automatic Purge Purge Run Time Lock Outs | Single 4 Seconds 2 OFF 4 Seconds OFF | Single or Dual 2, 2.5, 3, 3.5, 4 1-3 OFF, 3, 6, 12, 2 2, 3, 3.5, 4, 4.4 OFF, 2-10 Ops |
| TAP MENU Run Time Sensor Range Wave On/Off operation Anti Vandal Time Automatic Purge Purge Run Time Lock Outs | 2 Seconds 5 OFF 1 Minute OFF 1 Minute OFF | 2, 5, 10, 15, 20 1 - 10 ON/OFF 30 Seconds, 1, OFF, 3, 6, 12, 2 30 Seconds, 1, OFF, 4, 6, 8 & |
| SHOWER MENU Run Time Sensor Range Wave On/Off operation Anti Vandal Time Automatic Purge Purge Run Time Lock Outs | 1 Minute 2 OFF Run+10s OFF 1 Minute OFF | 30 Seconds, 1, 1 - 3 ON/OFF Run+10s OFF, 3, 6, 12, 2 30 Seconds, 1, OFF, 4, 6, 8 & |
| BATH MENU Run Time Sensor Range Wave On/Off operation Anti Vandal Time Automatic Purge Purge Run Time Lock Outs | 2 Minutes 2 OFF Run+10s OFF 1 minute OFF | 1, 2, 3, 4, 8 & 1 - 3 ON/OFF Run+10s OFF, 6, 12, 24, 30 Seconds, 1 OFF, 2, 4, 6 & |

To program the Multi-Channel Control Box;

(Channel by channel, adjust the settings)

Hold the Programmer up to the sensor on the control box as shown in the image on the right.

Then press the 'Read Button' to load the control box's current settings.

After this, choose your requires settings from the displayed menu's.

Once settings are selected, press the 'Send Button' this will program the control box with your selected settings.

Read Button



SETTINGS

4, 4.5, 5, 5.5, 6 & 6.5 Seconds

, 24, 36, 48 & 72 Hours .5, 5, 5.5, 6 & 6.5 Seconds

20 & 30 Seconds

1, 2, 4 & 8 Minutes 24, 36 & 48 Hours 1, 2, 4 & 8 Minutes 10 Ops

1, 2, 3, 4 & 5 Minutes

24 36 & 48 Hours 1, 2, 4 & 8 Minutes 10 Ops

10 Minutes

, 36, 48 & 72 Hours 1, 2, 4 & 8 Minutes 8 Ops

Typically used with WC01 - 023 or WC01 - 022 WC Flushvalve

Typically used with VR01 - 030 high security wash basin with in-built hot and cold sensors and spouts.

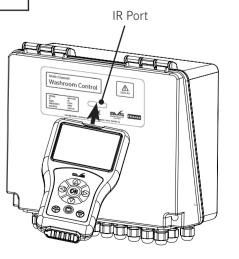
Typically used with SH07 - 040 anti-ligature showerhead and sensor



Typically used with VR01-024 High security bath filling back plate.



Send Button



www.dartvalley.co.uk