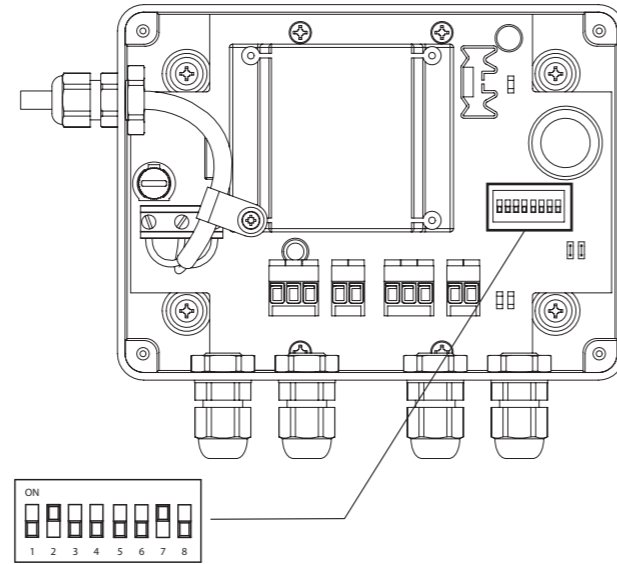
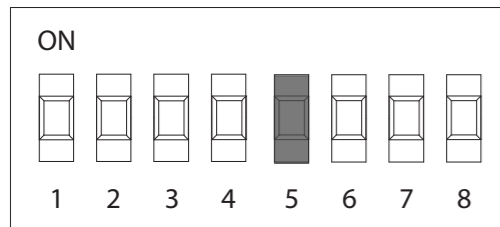


Step 6 : Setup

IMPORTANT : Changes to settings can only take place when power has been disconnected for at least 5 seconds.



- 1 - Valve open 1 min.
- 2 - Valve open 2 mins.
- 3 - Valve open 3 mins.
- 4 - Valve open 4 mins.
- 5 - **Not used.**
- 6 - Add 15 seconds.
- 7 - Add 30 seconds.
- 8 - ON: Dual valve. OFF: Single valve.

Set up Run time

Any combination of switches can be set ON to gain the desired run time.

e.g. Switch 1 + switch 4 + switch 7 = 5minutes and 30 seconds run time.

Switch 8 toggles between Dual Valve and Single valve modes.

Dual Valve mode - This allows two solenoid valves to be connected and operated by two sensors/tactiles, each valve can be operated independently. The open time selected applies to both valves. An example of dual operation would be to control mixed water on channel 1 and cold water on channel 2.

Single Valve mode - When single valve operation is selected, a single solenoid valve is connected to channel 1 only. With two sensors/tactiles connected the valve is either opened for the set time (channel 1 sensor) or for half the set time (channel 2 sensor).

In both operating modes each solenoid can be closed before the set time is reached by operating the corresponding sensor/tactile again.

NOTE: Only apply new settings with power off. When powering on, the new settings will be stored.

Operation

On power up, the system will re-calibrate. The connected solenoid valves will open for 2 seconds and close

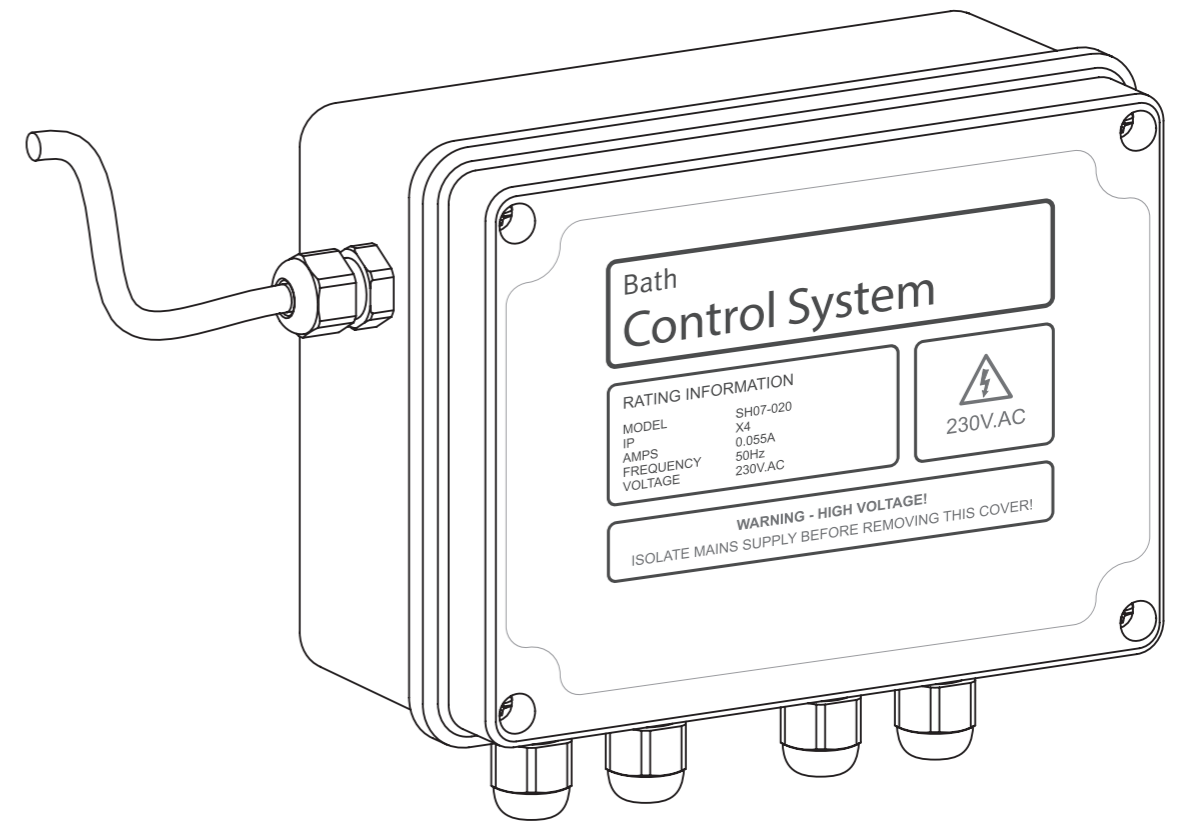
When a Sensor or Tactile is operated, the corresponding valve will open for the set runtime.

Operating the sensor/tactile again whilst running will close the corresponding valve.

KWC DVS

Bath Control System - Mains Installation & Operating Instructions

SH07-020



Step 1 : Safety First

These instructions relate to the use of the Bath Control System only, any external or 'add-on' parts will be supplied with separate instructions.

IMPORTANT : The control should be connected to a dedicated mains supply, via a 3A rated spur

It is recommended that the electrical part of the installation be carried out by a qualified electrician in accordance with the latest electrical regulations. It is also recommended that any plumbing is carried out by a qualified plumber.

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

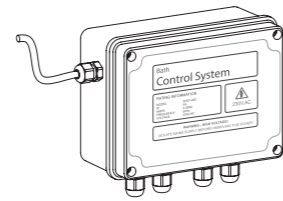


230V.AC

Always isolate power when opening the control unit!

Step 2 : Contents

Bath Control System box only*:

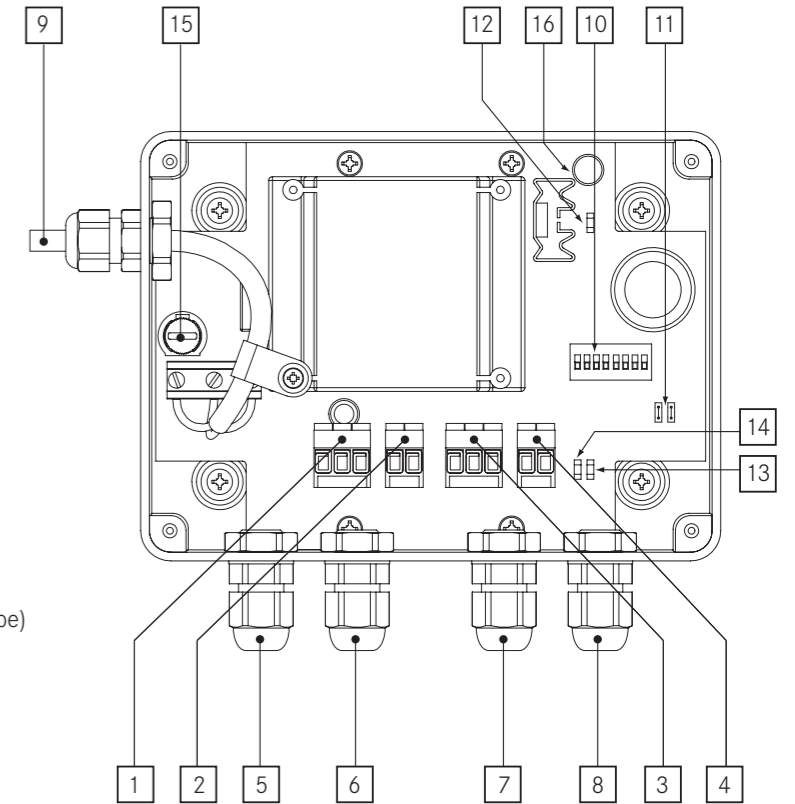


Control box

*Not to scale

Step 4 : Board layout

- 1 Input connection - Sensor 1
- 2 Output connection - Valve 1
- 3 Input connection - Sensor 2
- 4 Output connection - Valve 2
- 5 Cable entry - Sensor 1
- 6 Cable entry - Valve 1
- 7 Cable entry - Sensor 2
- 8 Cable entry - Valve 2
- 9 Mains supply
- 10 Time setting switches
- 11 Programming jumpers - For engineers / testing only
- 12 LED 1 - Power indicator
- 13 LED 2 - For engineers / testing only
- 14 LED 3 - For engineers / testing only
- 15 Fuse (Primary) PP00-100 (Replace with exact same type)
Primary 20mm Glass 240V (T) 100mA
- 16 Fuse (Secondary) PP00-101 (Replace with exact same type)
Secondary TR5 (F) 500mA



DO NOT extend cables
DO NOT leave badly fitted cables
DO NOT interfere with the mains flex
DO check all cables and connections
DO ask for advice if / when necessary

Step 3 : Typical installation

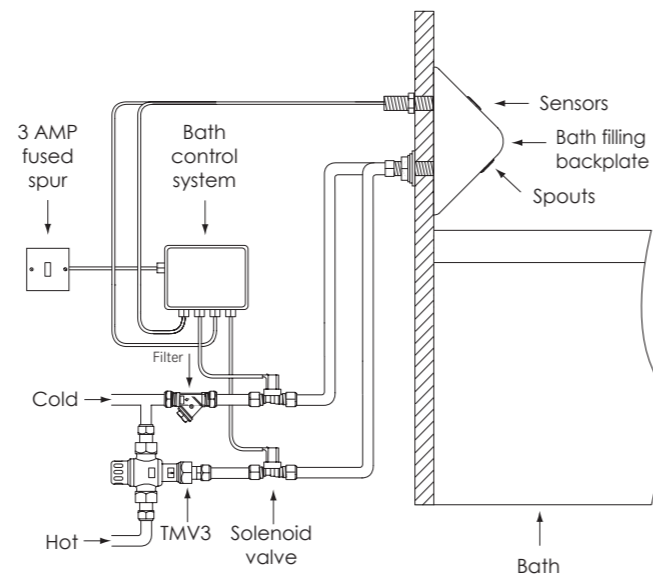
The control box should be located in a dry location and not exposed to dirt, dust or damp. The unit should be accessible when required, but not within easy reach of unauthorised persons.

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

The control box 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 box should also be planned at this stage.

The bath control system is typically used with a bath filling back plate or spout.



IMPORTANT : It is recommended that hot water is supplied through an approved TMV3 thermostatic mixing valve (sold separately), in order to prevent scalding.

Step 5 : Fixing & wiring

The box should be securely fixed in a suitable location in a horizontal orientation, so that the front label is read correctly.

Remove lid to expose four fixing locations around the edge of the enclosure. These areas allow the fastening of the unit without removing the printed circuit board.

Drill through these marked areas away from the wall to avoid dust entering the control box, then hold control box in position against the wall and mark holes with a pencil. Remove box, drill and plug marked areas and fix the control unit with suitable fixings.

Connect the mains supply lead to a 230V ac supply via a fused spur, the fuse rating should be **3 Amps**. The mains supply should NOT be initiated until all external equipment has been installed and wired.

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

Cables should enter the enclosure through the 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 fitter to allow the connector plugs to be fitted.

The connector plugs can be disconnected from the mating sockets when wiring external equipment, double check positions with the plug orientations as they only fit one way!

When each plug has been wired the cables can be pulled back through the cable glands, and the plug re-connected to the corresponding socket. Cables should not be left to torte.

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

