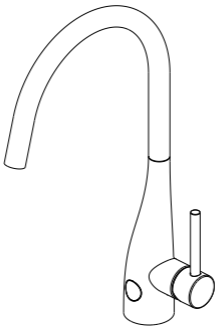


## Dual Control Sensor Kitchen Mixer chrome



INSTALLATION INSTRUCTIONS

## INSTRUCTION

**Please read these instructions carefully and keep in a safe place for further reference.**

### **General Installation Requirement**

The installation must comply with regulations of the Local Water Authority as contained in their bylaws. All of the taps in this range are single flow (the hot and cold water mix in the body) and therefore should be supplied with hot and cold water at balanced pressures. If the taps are not supplied balanced pressures then the mixer will not function correctly. It will also be necessary to fit non-return valves on both the hot and cold feeds. It is very important that all pipework is flushed thoroughly after installation to avoid damaging the ceramic discs.

### **Minimum/Maximum working pressure**

These taps are suitable for high and low pressure installations. They are fitted with single lever cartridges which provide a smooth movement. Recommended Operating Pressure: 1 -5 bar (min. 1 bar/max. 10 bar). Hot water inlet: max. 75°C, recommended (energy saving): 60°C. If static pressure exceeds 5 bar, a pressure-reducing valve must be fitted.

### **Approvals**

All taps are manufactured using materials tested and approved under the Water Bylaws Scheme and comply with requirements of European standard EN817 where applicable.

### **Preparations and bylaw requirements**

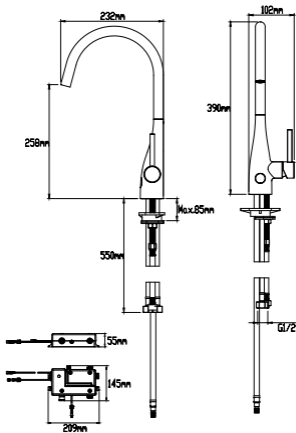
These taps are single flow so the hot and cold water mix in the body. Water Bylaws require that where hot water is supplied from tank and cold from mains, non return valves are fitted on both hot and cold pipes as close as possible to the tap. These are not supplied. Where combination boilers are fitted, it is only necessary to shut off the incoming mains and turn the boiler off and non return valves are not required.

### **Warning**

**Before installing the new mixer, it is essential that you thoroughly flush through the supply pipes in order to remove any remaining swarf, solder or other impurities. Failure to carry out this simple procedure could cause problems or damage to the working of the mixer.**

These hints are prepared in your guidance; you must exercise due care at all times. We do not accept responsibility for any problems that may occur through incorrect installation.

DIMENSIONS



NOTE: ALL DIMENSIONS IN MILLIMETRES

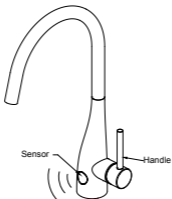
## Product Features

### 1. Sensor Control

Use a waving motion by hand to activate the sensor within 60mm detection zone in the front of sensor window of the tap body for cold water ON and OFF. The water will be automatically stopped if the time being used exceeds 180s for safe and economic water usage.

### 2. Handle Control

Rotate the lever handle for specific temperature and flow control. When the handle is open for water flow, the sensor function will not be activated.



## Product technical parameters

### Control Box

Input Voltage: DC 6V

Standby Usage:  $\leq 0.5\text{mW}$

Working Water Pressure: 1 - 5 bar

Working Water Temperature: 0-75°C

Detection Zone: 60mm

Flow Rate: Approximately 8L/min at 3bar

Water ON after Sensor:  $\leq 1\text{s}$

Water OFF after Sensor:  $\leq 1.5\text{s}$

### Suggested Install Tool ( Not Supplied )



INSTALLATION



[1] X1



[2] X1



[3] X1



[6] X1



[4] X1

[5] X1



[7] X1



[8] X1



[9] X1



[10] X6

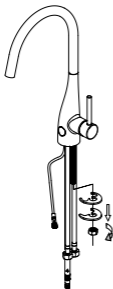


[11] X6

## INSTALLATION

This tap contains good filter units, so it is highly recommended to flush the cold and hot water system completely to ensure that there is no metal swarf, solder, and other impurities which can enter the product before installation.

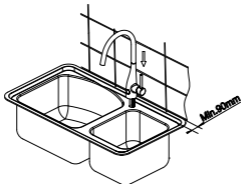
- 1 Unscrew the pre-installed retaining nut, metal washer and rubber washer on the tap body [1].



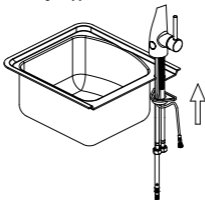
Attention: Check the fitting of the pre-installed hoses to the tap ensure they are securely tightened before use

## INSTALLATION

- 2 Place the mixer on the sink with the sensor window facing forward.



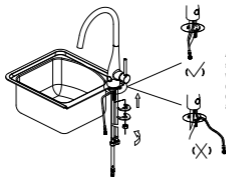
- 3 Install the mounting seat [5] over flexible hoses.



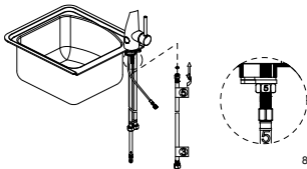


## INSTALLATION

- 4** Install the rubber washer, metal washer and retaining nut back to the original position and tighten the retaining nut by using an adjustable spanner.

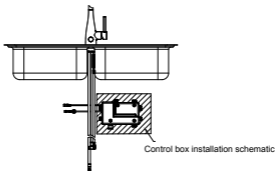


- 5** Connect washer [4] and flexible hose [2] to the bolt of the tap and tighten them by using an adjustable spanner.

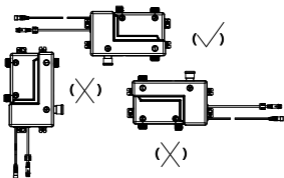


## INSTALLATION

- 6 Choose a suitable position to install control box [6] and make sure all hoses including flexible hoses and cables are long enough to be connected to control box.

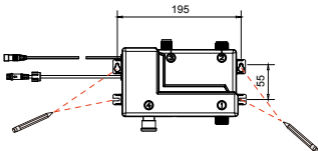


**ATTENTION:** make sure the installation direction of the control box [6] is correct; otherwise it will affect the normal operation of this sensor tap.

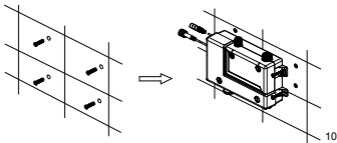


## INSTALLATION

- 7** Mark the position of the fixing holes for the control box [6] on the wall, then use a  $\Phi 6\text{mm}$  drill to bore those holes.

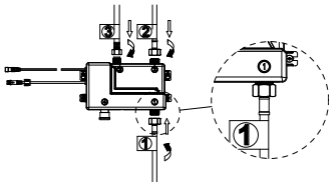


- 8** Fit wall plugs [11] X4 into drilled holes on the wall. Put and tighten screws [10] X4 into wall plugs [11] X4 to fix the control box [6] onto the wall.



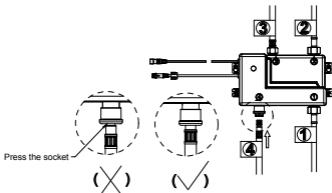
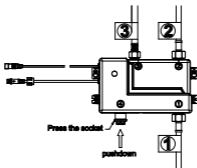
## INSTALLATION

- 9 There are small labels of Numbers (1 to 3) attached to each hose and each thread of control box [6]. Connect the hoses accordingly to the correct threads according to Numbers on labels. Do not bend or over tighten the hose, otherwise it may cause hose failure or damage.

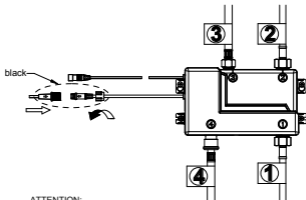


## INSTALLATION

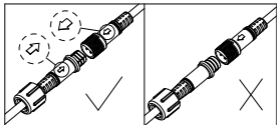
- 10** Press the socket and make sure quick-fix hose (No. 4) is completely inserted to the according thread (No.4).



## INSTALLATION

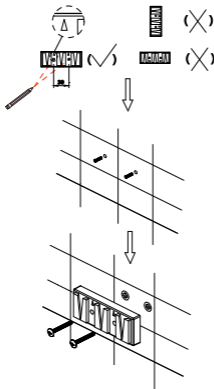
**11** Cable Connection**ATTENTION:**

Make sure the cable connection is correct as shown; otherwise the faucet will not work normally.



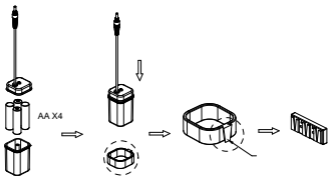
## INSTALLATION

- 12** Fit wall plugs [11] X2 into drilled holes on the wall. Put and tighten screws [10] X2 into wall plugs [11] X2 to fix the battery box mounting seat [9] onto the wall.

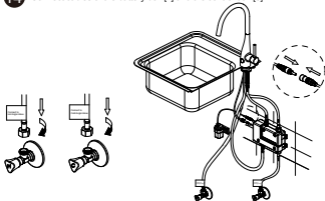


## INSTALLATION

- 13** Open the battery box [7] to install 4PCS AA batteries (not provided by the manufacturer) in the right direction and insert battery box [7] into battery retainer ring [8], fix the whole unit into the well-assembled mounting seat [9] on the wall.



- 14** Connect cables of the battery box [7] and the control box [6].





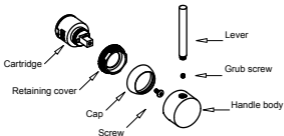
## MAINTENANCE

## Cleaning the cartridge

The concealed cartridges should give trouble free service, but in the event of any problem, service is straight forward.

## To Remove the Cartridge

Unscrew the lever and then use a suitable hex key to loosen the grub screw, but do not remove it. Pull off the handle and unscrew the cap. Unscrew the screw. Remove the retaining cover by using an adjustable spanner (not supplied). Take the cartridge out and wash it with clean running water. Make sure any trapped debris has been removed. Dry and lightly grease the seal (bottom of cartridge, only use silicone grease). Refit the cartridge followed by the retaining cover, cap, handle body, grub screw and lever.

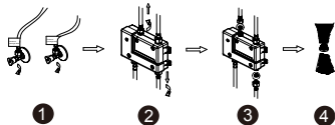


## CLEANING

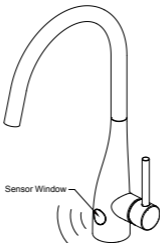
The chrome plate we use on our taps is very durable, nevertheless care should be taken when cleaning. It should be cleaned only with warm soapy water followed by rinsing with clean water and drying with a soft cloth. All finishes are vulnerable to acid attack and some strong substances such as household cleaners, disinfectants, denture cleaners, hair dyes, wine making and photographic chemicals can cause surface to go black or peel.

## Control Box Cleaning and Maintenance

- 1 Close both hot and cold inlet angle valves.
- 2 Unscrew No.1 and No.3 hoses on the control box by using a suitable spanner.
- 3 Take out the filter from the control box and rinse any debris with clean flowing water.
- 4 Fit back the filter and hoses correctly and make sure there is no water leakage.



## Notes



## 1. Sensor light indicator

- 1.1. The sensor light flashes 5 times with an interval of around 1.5s, which indicates the battery power is about to run out. Please replace the battery in time; otherwise the sensor function won't be used soon.
- 1.2. The sensor light flashes 10 times with an interval of around 0.5s, which indicates the battery power has been exhausted and the sensor function cannot be used. In this case, please use the mechanical handle for ON/ OFF control before the battery is replaced.
- 1.3. The sensor light flashes once normally when the tap senses an object and water is ON/OFF.

## 2. Automatic Water Shut-off

The water will automatically shut off if the time being used exceeds 180s for safe and economic water usage. Use a waving motion by hand to activate the sensor again.

This product should only be fitted by a qualified plumber to NVQ (National Vocational Qualification) or SNVQ (Scottish National Vocational Qualification) Level 3. Should the installation be completed by a non-qualified person then the guarantee may be considered invalid.

For a claim made under our warranty written certification of your installers credentials can be required. For further information or to find a qualified installer in your area please visit the Institute of Plumbers website - [www.iphe.org.uk](http://www.iphe.org.uk)

## THE QUALIFICATIONS

At present, to be a plumber you need to follow the National Vocational Qualification (NVQ) route (Scottish National Vocational Qualification - SNVQ - in Scotland). These qualifications are made up of theory and practical work in the classroom/purpose built training facility and work based experience with a working plumber. Colleges should help students find a work placement, although many students organise it themselves.

The S/NVQ qualification works in levels. All recently qualified plumbers should hold S/NVQ Level 2 as basic with Level 3 as the preferred level. Level 2 will give you the foundation you need for a career in plumbing and teach you domestic plumbing to a satisfactory level. Level 3 is more comprehensive and deals with domestic, commercial and industrial plumbing along with aspects such as gas - if you want to one day set up your own business, this is the level to reach. The Institute of Plumbing and Heating Engineering, and the industry as a whole recommends that all plumbers reach a minimum of Level 3.

Reaching Level 3 has other advantages. The Institute runs a Master Plumber Certificate, which only those attaining Level 3 or equivalent can reach as long as they have the relevant experience as well. Those with S/NVQ Level 3 can (once in membership with the Institute for five years as a Member MIPHE) gain Engineering Technician EngTech status with the Engineering Council (UK).

For any further information please email  
[technical@crosswater.co.uk](mailto:technical@crosswater.co.uk)

Or visit our web-site at <http://www.crosswater.co.uk>

The manufacturer reserves the right to make technical  
modifications without prior notice