

astrawalker A80.03 Capacitive Sensor Tap



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astrawalker A80.03 Capacitive Sensor Tap



Product Information

Specifications

- New Age Technology: Cutting-edge capacitive sensor technology
- Energy Saving: Low power usage, economical and reliable
- Battery Life: 3 years at 150 times/day
- Water Saving: Efficient water-saving technology, achieving a 6 Star WELS rating
- Seamless Experience: Precise sensor accuracy for a seamless user experience
- Accuracy: 5 levels of sensitivity for water flow accuracy and efficiency
- Safety: Extra fail-safe protection 'time out' feature
- Minimal Maintenance: Self-calibration to reduce system maintenance and enhance stability

Product Usage Instructions

Step 1: Installation

1. Ensure all mounting surfaces are non-metallic and non-conductive.
2. Keep plumbing fittings, including the sensor box in-wall, at least 250mm away from conductive materials like steel framework and other copper plumbing.
3. Create an access panel either below the wash basin or behind the mirror to ensure easy accessibility to all components during installation and maintenance.

Step 2: Positioning

Choose one of the following positioning options:

1. Inside cabinet: Place the sensor box behind the wall inside a cabinet.
2. Behind mirror: Position the sensor box behind the mirror in a shaving cabinet.
3. Behind wall: Install the sensor box behind the wall using an access panel.

Note: The sensor box must be within 1m of the electrode washer behind the spout.

Step 3: Connecting the Components

1. Tighten the electrode washer behind the wall against the lugged elbow and secure it with a lock nut.
2. Ensure the sensor clip or ring is in contact with the brass thread on the spout for optimum detection.
3. Connect the sensor cable to the sensor box.
4. Connect the water inlet to the sensor box and the water outlet to the spout.

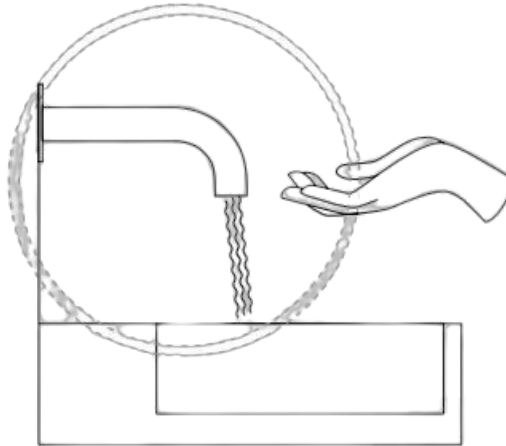
INSTALLATION

Astra Walker's capacitive tap sensor is one of our latest and most highly anticipated collection releases. It responds to the global demand of contactless hand hygiene, prioritising health and safety above all else

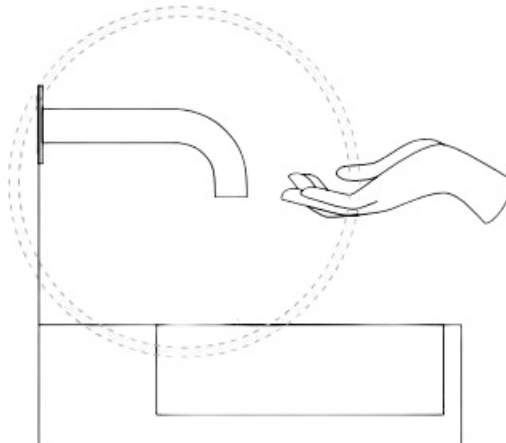


HOW TO USE

- When hands come into close proximity to the tap, an increase in capacitance is detected and water flows automatically.



- When the hands are removed a decrease is detected, turning off the water and returning the tap to standby mode.



FEATURES

- **New Age Technology**

Cutting-edge capacitive sensor technology, compared to infrared sensor

- **Energy Saving**

Low power usage, economical and reliable. Battery life time – 3 years at 150 times/day.

- **Water Saving**

Efficient water saving technology, achieving a 6 Star WELS rating

- **Seamless Experience**

Precise sensor accuracy for a seamless user experience

- **Accuracy**

5 levels of sensitivity for waterflow accuracy and efficiency

- **Safety**

Extra fail-safe protection 'time out' feature

- **Minimal Maintenance**

Self-calibration to reduce system maintenance and enhance stability

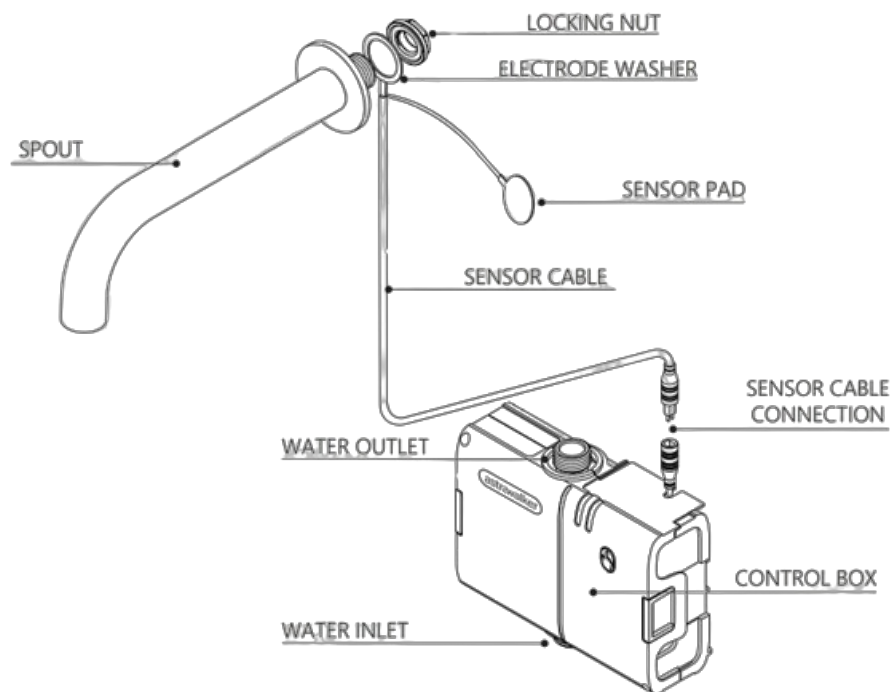
WALL SPOUT WITH CAPACITIVE SENSOR TECHNOLOGY

INSTALLATION TO SUIT:

- A80.03
- A80.04
- A80.04.V2
- A80.82.05
- A80.05
- A80.06
- A80.06.V2

The capacitive sensor tap works by detecting any increase in capacitance within a close proximity. Capacitance is a physical property of the human body (or conductive element) which enables it to store electrical energy and act as a natural capacitor. When the user comes into close proximity to the tap, an increase in capacitance is detected and water will flow. When the user leaves, a decrease is detected and the sensor will return to its normal standby mode. The sensor tap is operated by a battery pack containing 6 AA lithium batteries for the power supply. Ensure water lines are completely flushed prior to fitting to avoid damage to solenoid.

- Tapware to be installed by a licenced plumber in accordance with AS/NZS 3500:2021
- Recommended working water pressure 150 – 500kPa
- Maximum water temperature is 65 deg C
- After completing the installation check function of tapware and ensure no water leaks.

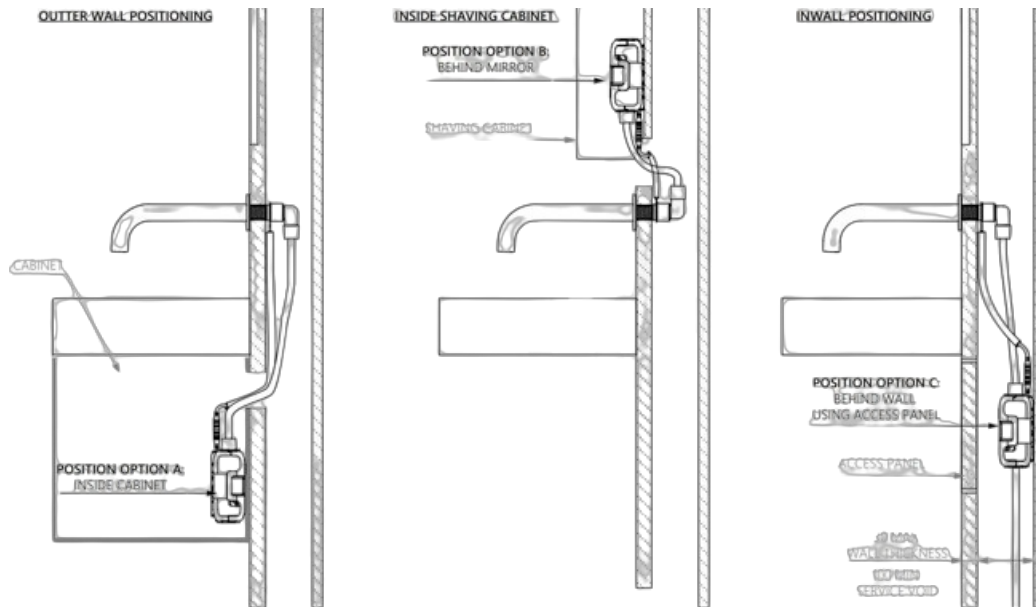


DIMENSIONS

1. Determine the position of the tap mounting hole in the wall. Hole size required is Ø35mm with a maximum wall

thickness of 30mm.

2. All mounting surfaces must be non-metallic and non-conductive. NOTE: The plumbing fittings including sensor box in-wall must not be within 250mm of conductive materials including steel framework and other copper plumbing.
3. It is critical all components which require fixing behind the wall are easily accessible at all times during installation and maintenance. An access panel must be constructed either below the wash basin or behind the mirror.



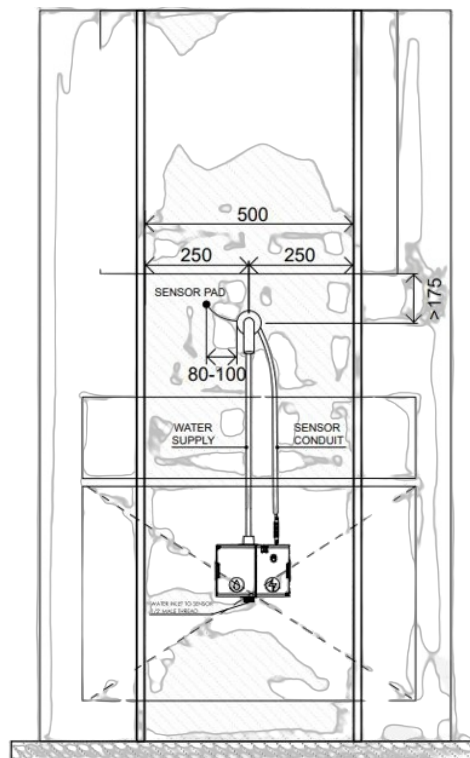
- **NOTE:** The box must be within 1m of the electrode washer behind the spout.

4. Tighten the electrode washer behind the wall against the lugged elbow, and tighten lock nut. The sensor clip or ring must be in contact with the brass thread on the spout to ensure optimum detection.
5. Remove the double-sided tape under the Sensor PAD, then stick it on the wall behind outlet, as far away from the outlet as possible.

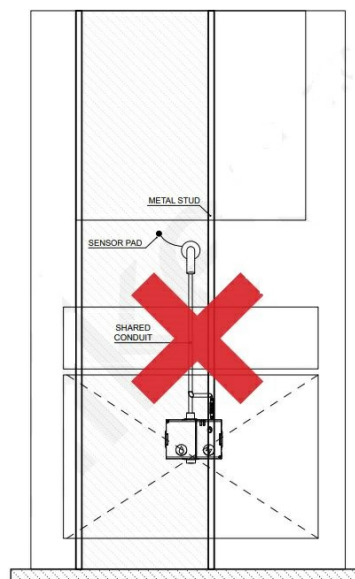
NOTE: ensure the Sensor PAD is left or right of the spout location, not in alignment.

6. Check the sensor cable is securely connected to the electrode washer.
7. Feed the sensor cable through conduit in the wall. NOTE: The sensor cable must not have any loops or shared cables in the same conduit.
8. Fit spout to thread in wall – avoid using teflon tape for optimum sensitivity.

CORRECT INSTALLATION:



INCORRECT INSTALLATION:



NOTE: The plumbing fittings including sensor box in-wall must not be within 250mm of conductive materials including steel framework, mirrors and other copper plumbing.

9. Prepare the box by unscrewing the screws to remove the cover then:

1. push the green part
2. pull the white part
 - Remove the valve and the battery pack.

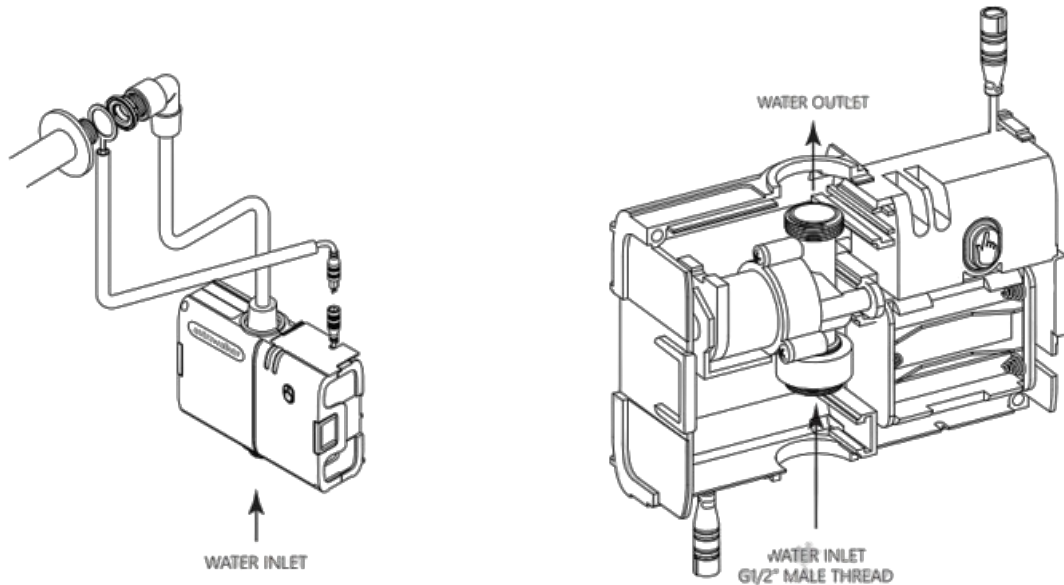
10. Determine and check the correct position of the box, ensuring that it's position allows you to make the hydraulic connections without creating unnecessary stress or kinks on the hoses or sensor cable. The box must be within 800mm of the electrode washer behind the spout.

11. Control box connections

- Attach flex hose to the water outlet.
- Fit tap supply hose to the water inlet of the tap.
- Attach the wiring loom to 4 pin electrical socket and tighten the locking ring.

- Attach G1/2" mains water supply to the water inlet connection on the control box.

12. Fix the box to the wall, and attach water hoses to the inlet and outlet valves.



13. Connect the sensor cable connector to the box. Ensuring that the sensor cable is not stretched or in contact with the water hoses.

14. Open water supply, which will allow water to flow into the valve (water may flow from the tap – check for leaks)

15. Insert and connect batteries. Place the battery holder in the box and plug the battery holder into the corresponding connector in the box (connector with black and grey cable).

16. Calibration

1. Immediately after connecting the power supply, stand at a distance of 1m away from the spout, making no contact with the spout, box or any components of the installation.

NOTE: It is imperative that no contact is made with the spout during this calibration phase (when the LED is lit) as this can impact the sensor's performance.

2. During calibration, the green LED flashes and the water flows from the spout for 10 seconds. If calibration is successful, the spout will close the running water. A small amount of water will be dispensed to indicate the calibration is successful.
3. If calibration is unsuccessful, the box's red LED lights up and the water flows for a second time. In this case, unplug and reconnect the box's batteries in order to reinitialize the calibration process. If the problem persists consult troubleshooting.

17. 17) Check there are no water leaks near the hoses, spout, and valve. Then close the box cover using the two screws.

Adjusting sensitivity:

After the calibration phase, activate and deactivate the faucet 3 to 4 times. This should allow the sensor to automatically optimize sensitivity to its installation conditions, but if the sensor sensitivity is not satisfactory press the button to adjust it. Throughout the product's lifetime, the sensor will auto-calibrate to ensure that the system maintains a stable performance.

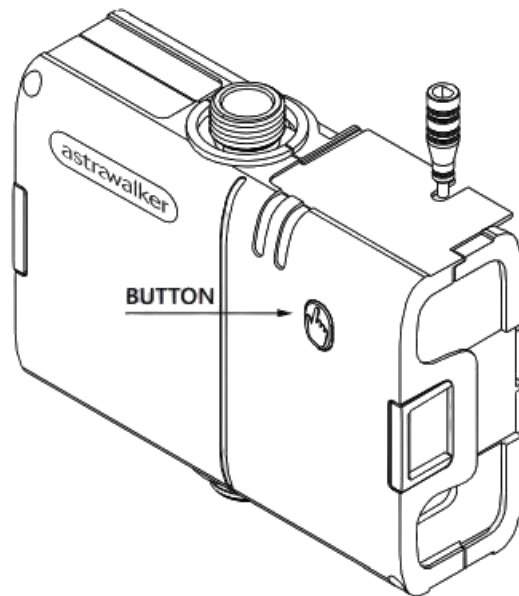
The sensor has 5 levels of sensitivity:

- Level 1: very low sensitivity (<3cm)
- Level 2: low sensitivity (about 5cm)
- Level 3: medium sensitivity (about 7cm) -Default setting

- Level 4: high sensitivity (10cm)
- Level 5: very high sensitivity (>10cm)

To adjust the sensitivity:

1. The level of sensitivity can be set by using the green button.
 2. To enter the settings mode you must press the green button for 10 seconds (until the green LED is permanently lit).
- Release the button.
 - The sensitivity level is indicated by a series of flashes. For example, level 2 is indicated by 2 flashes.
 - Each time the button is pressed the sensitivity level will increase +1. At level 5, press once more, and the system will go back to level 1.



After adjusting the level, press the button for 5 seconds to validate. The 2 green and red LEDs will flash once. After adjustment, the system will reboot and restart 1 cycle of auto-calibration (STEP 10)

Maintenance

When batteries reach a low level the box's red LED will blink 3 times per minute. This will continue for around 5 days before the box's batteries are empty. Once the batteries are empty, the box's electronics will force the solenoid valve to close. The red LED will flash continuously until batteries are changed.

Further Assistance

Should any further assistance or troubleshooting be required please contact Astra Walker customer care on 02 8838 5100.

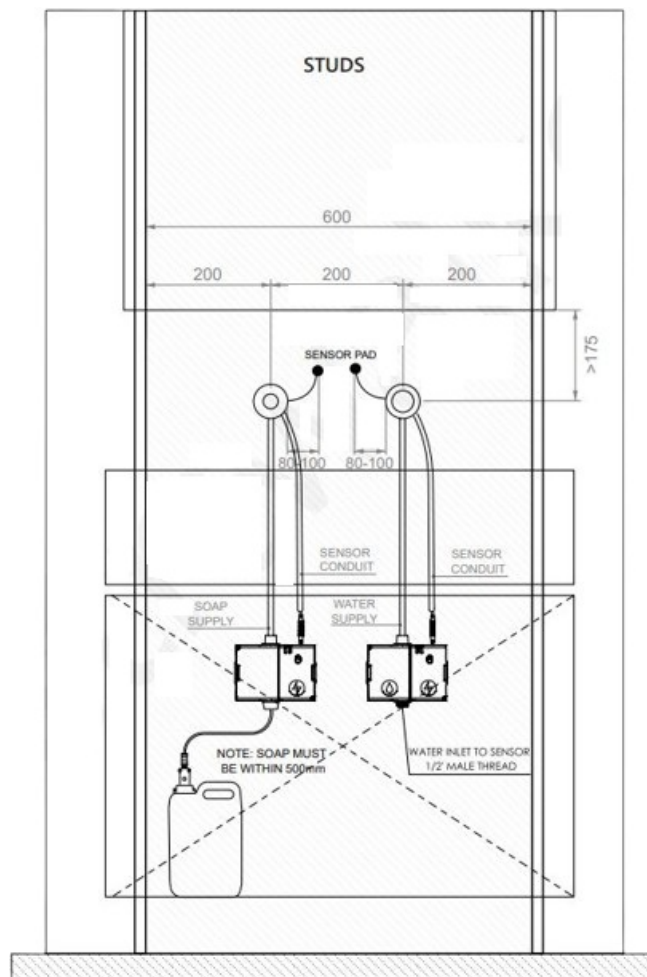
Warranty

All components of the Sensor Tap range are covered by a comprehensive 24-month warranty on all parts and labor. *Refer to the website for further details on warranty and care.

<https://www.astrawalker.com.au/about/warranty>

Double Spout Installation

For the installation of two or more spouts, ensure the layout follows the below.



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FAQ'S

How long does the battery last?

The battery life is approximately 3 years when used 150 times per day.

What is the WELS rating of this product?

This product achieves a 6 Star WELS rating, ensuring efficient water usage.

Can I install the sensor box near conductive materials?

No, it is important to keep the sensor box at least 250mm away from conductive materials like steel framework and other copper plumbing to avoid interference.


How do I ensure optimum detection?

Make sure the sensor clip or ring is in contact with the brass thread on the spout to ensure accurate detection.

Is there any maintenance required for the sensor?

The sensor has a self-calibration feature to reduce system maintenance. However, regular cleaning of the sensor pad is recommended to maintain optimal performance.

Documents / Resources

	astrawalker A80.03 Capacitive Sensor Tap [pdf] Installation Guide A80.03 Capacitive Sensor Tap, A80.03, Capacitive Sensor Tap, Sensor Tap, Tap
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References

- [aw Home - Astra Walker](#)
- [aw Certification & Warranty - Astra Walker](#)
- [User Manual](#)

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