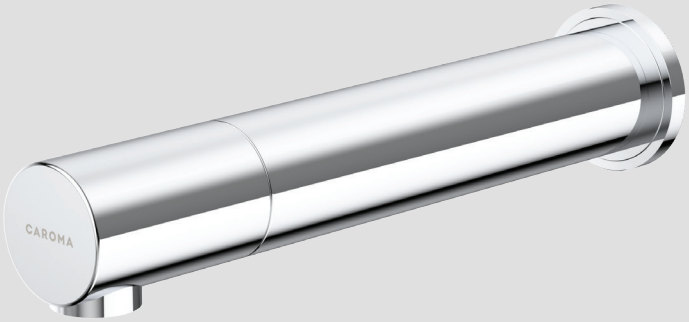
CAROMA



HANDS FREE WALL MOUNTED

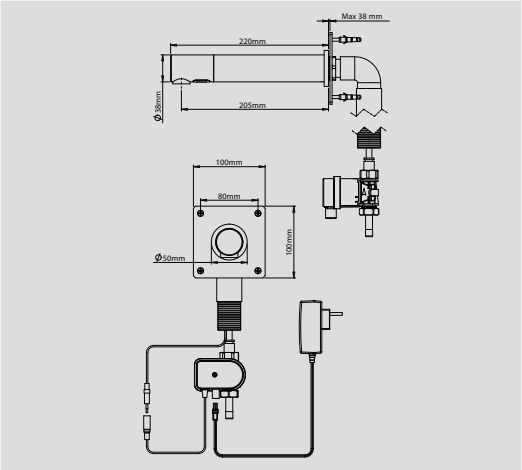
G SERIES ELECTRONIC OUTLET 205

INSTALLATION AND MAINTENANCE GUIDE

INDEX

REVISION: 0 DATE OF ISSUE: 11/02/21

TECHNICAL DATA

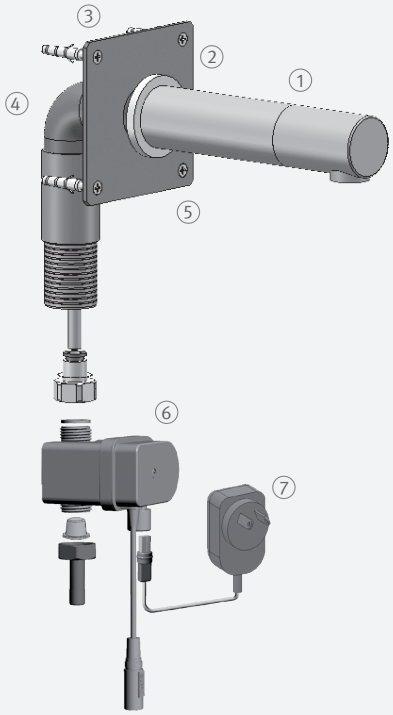


G SERIES ELECTRONIC OUTLET 205 G16014E6A

Power supply for battery operation:	1X9V battery (battery not included)
Power supply for electrical operation:	9V transformer
Recommended water pressure:	150 - 800 kPa - with water pressure of more than 800 kPa, use a pressure reducing valve. NB. New Regulation 500 kPa maximum static pressure at any outlet within a building (Ref. AS/NZS 3500.1-2003, Clause 3.3.4)
Sensor range:	Self-adjusting sensor Manually adjustable with optional remote control
Minimum sensor range:	35mm
Maximum sensor range:	300mm
Security time:	Flow will automatically stop after continuous running of 90 seconds (Can be reduced with optional remote control)
Hot water temperature:	Max. 70°C (To prevent scalding, ensure water is tempered to the appropriate temperature for the specific bathroom requirements)

Spare parts can be downloaded from specify.caroma.com.au

PACK CONTENTS



1) 1 x Spout and attachments (incl. electronic unit)
2) 1 x Wall rosette
3) 1 x Tubular base
4) 1 X Corrugated Tube
5) 1 X M4X6 screw
6) 1 x Dual power input box with inlet nipple and filter
7) 9V transformer

OPERATION - This outlet features an IP67 dual power input box. The product can be operated with a 9V battery or a 9V transformer. In addition, when used with a transformer the product contains an integrated battery backup, for normal use during power supply failures.

PRE-INSTALLATION INFO

CHECK CONTENTS

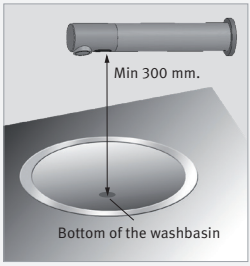
Separate all parts from the packaging and check each part with the pack contents section. Pay attention to the variations of the different models.

Make sure all parts are accounted for before discarding any packaging material.

If any parts are missing, do not attempt to install your electronic outlet until you obtain the missing parts.

WARNING

1) To avoid reflection problems keep a distance of more than 300 mm. between the washbasin and the spout.
2) This outlet model, with an infrared sensor pointing down, is not intended to be used together with a washbasin of a reflective material such as stainless steel.
3) If a washbasin strainer is straight below the outlet sensor, use a strainer with a non reflective finish (do not use a chrome plated one).



PREPARATION FOR INSTALLATION

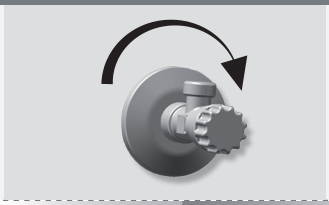
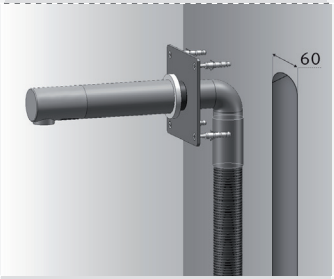
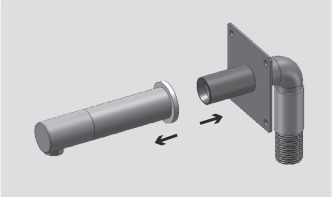
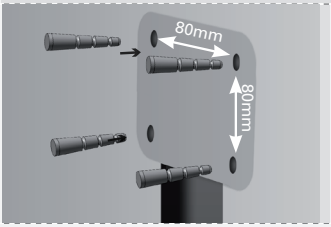
Flush the water supply lines thoroughly before installing the outlet. Do not allow dirt, teflon tape or metal particles to enter the outlet. Shut off water supply.

IMPORTANT: All plumbing is to be installed in accordance with applicable codes and regulations.

Installations in Australia and New Zealand must comply with the requirements of AS/NZS 3500.

INSTALLATION

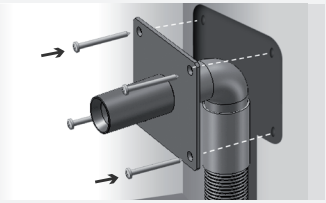
INSTALLING THE OUTLET

1	Shut off the water supply.	
2	Cut an adequate opening in the wall for the dimensions of the product base, and the corrugated tube.	
3	Dismantle the outlet base.	
4	Drill four small holes for the product base support and drive the anchors in.	

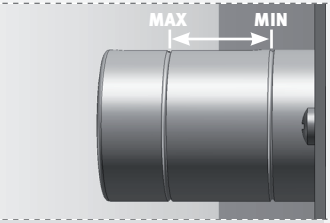
INSTALLATION

5 Mount the product base to the opening cut in the wall, and secure the base support to the four small holes using 4 screws. Make sure that the base is leveled to the centre.

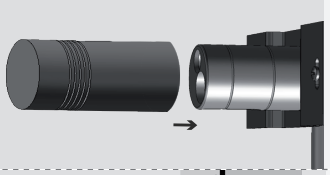
Ensure the outlet base is perpendicular to the wall so the spout will be appropriately positioned for use.



IMPORTANT: The outlet base should be installed so that the outside surface of the finished wall falls between the minimum and maximum lines marked at the base.

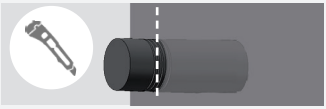
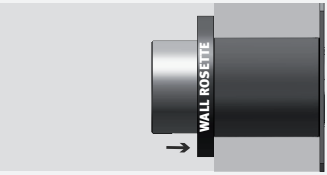
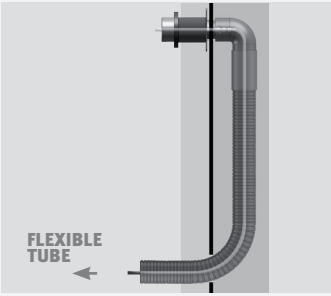
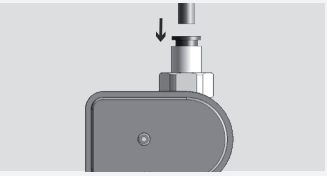
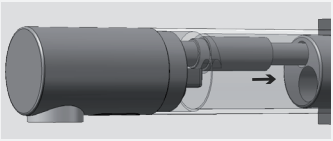


6 Assemble the temporary protective outlet base cover.



7 Make sure the corrugated tube will protrude out of the wall when tiling.

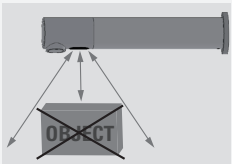
INSTALLATION

8	Cut the temporary outlet base cover.	
9	Once the works on electricity, plumbing and tiles have been finished, assemble the wall rosette through the outlet base.	
10	Carefully tie the flexible leads (power and sensor) with string to the water tube and feed it through the corrugated tubing.	
11	Connect the flexible tube to the dual power input box outlet.	
12	Fix the product spout by inserting the nipple into the outlet base and tighten the screw.	

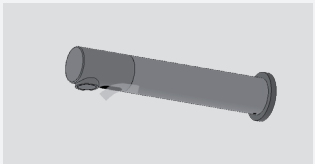
INSTALLATION

CONNECTING THE WATER SUPPLY

IMPORTANT: Product was supplied with a self adjusting sensor. The ideal sensor range for the specific location will be set automatically.

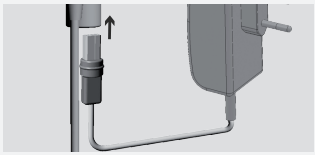


Before proceeding, check that no objects are in front of the sensor besides the washbasin.



Now, remove the protective sticker that covers the sensor.

1. Connect the transformer to the transformer socket in the dual power input box and plug it into the electricity socket.



2. Connect the four contacts connector to the dual power input box. **Important:** Make sure that the 4 contacts connector is connected all the way through.

3. After you have connected the four contacts connector to the dual power input box, wait 15 seconds in order to allow the system to set the ideal sensor range.

ABOUT **15** SECONDS

As an indication that the self adjusting has taken place a LED in the sensor eye will flash continuously. The solenoid valve will open and close for 1 second as an indication that the ideal sensor range is set and the product is ready for use.

4. Connect flexible hose (not supplied) from the mains water supply to the dual power input box with inlet (remove nipple and ensure filter is refitted)

   Turn on the mains water supply and check for leaks.

   If the automatically adjusted sensor range is not satisfactory, please refer to the section entitled “Settings adjustment”.

REMOTE CONTROL FUNCTIONS (OPTIONAL)

ADJUSTING THE SETTINGS WITH THE REMOTE CONTROL

If necessary, the sensor settings can be adjusted as following: Shut off the water supply. In order to adjust the sensor with the remote control, hold the remote control straight in front of the sensor in a distance of about (15-20cm). Choose the function you want to adjust by pressing once on one of the function buttons. After pressing once on a specific function button, a quick flashing of the LED at the front of the sensor will occur. At this stage, you can change the setting by pressing the (+) or the (-) buttons, every push will increase or decrease one level. After finishing the adjustment, turn the water supply back on.

SETTINGS ADJUSTMENT

	DETECTION RANGE: This outlet was supplied with a self adjusting sensor. The ideal detection range for the specific location will be set automatically. Only if necessary, use the remote control to adjust the sensor range as follows: Press the RANGE button. Wait until a quick flashing of the LED in the sensor eye is perceived. Then, press + to increase the range and – to reduce it. Every push will increase or decrease one level.
Note: Once you have changed the detection range with the remote control, the distance will be remembered by the sensor, even if the power source is disconnected. To get back to the self adjustment mode, use the ADJ button only.	
	Entrance to the self adjustment mode: Check that no objects are in front of the sensor. Press the ADJ button. Once a quick flashing of the LED of the sensor eye is perceived, remove your hand holding the remote control and move away from the sensor area. The ideal sensor range for the specific location will be set automatically. Once the self adjustment has taken place, the solenoid valve will be opened and closed for 1 second as an indication that the ideal sensor range was set and the product is ready for use.
	SECURITY TIME: The Security time, prevents continuous running of water due to reflections or vandalism. By default, if the sensor is covered for more than 90 seconds the water flow will shut automatically. To resume regular operation any obstruction must be removed. Press the SEC button. Wait until a quick flashing of the LED in the sensor eye is perceived. Then, press + to increase the security time and – to reduce it.
	DELAY IN TIME: It is recommended to change the delay in time for flush valves for urinals or toilets only. If required, the delay in time can also be modified in outlets as follows: Press the IN button. Wait until a quick flashing of the LED in the sensor eye is perceived. Then, press + to increase the delay in time and – to reduce it.

SETTINGS ADJUSTMENT

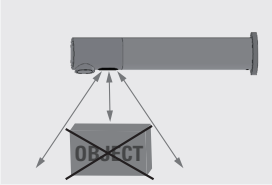
	DELAY OUT TIME: This button allows modifying the water flow time after the user removes his hands from the outlet. A delay out time close to 0 will save more water. An increased delay out time will make the user experience more comfortable. If required, the delay out time can be modified as follows: Press the OUT button. Wait until a quick flashing of the LED in the sensor eye is perceived. Then, press + to increase the delay out time and – to reduce it.
	24 HOUR HYGIENE FLUSH: This model includes a 24 hours hygiene flush which is disabled. To activate the hygiene flush, press the clock button. Wait until a quick flashing of the LED in the sensor eye is perceived. Then press + to activate the hygiene flush. To disable it again, press – to deactivate it.
	COMFORT FLUSH: If your model includes a Comfort flush setting, it can be activated by pressing the flush button. When the button is pressed, one blink of the LED in the sensor eye is perceived. The pre-programmed flush cycle will take place then. The Comfort flush cannot be interrupted or deactivated by pressing any button until it is over.
	TEMPORARY OFF FUNCTION: This function is ideal to perform any kind of activity in front of the sensor without operating the system (for example, cleaning). The outlet will remain shut for 1 minute when this button is pressed once. To cancel this function and to return to normal operation press the On/Off button again or wait 1 minute.
	RESET BUTTON: This function restores all the factory settings except for the sensor range. If required, press the Reset button and without releasing it, press the + button once.

Note: To enter the self adjusting mode, use the ADJ button. To change the sensor range, use the RANGE button.

BATTERY REPLACEMENT

Carefully open the dual power input box, using the Allen key provided. Remove the old battery and replace it with a new 9V battery (Lithium battery is recommended). Close the box.

IMPORTANT: These models were supplied with a self adjusting sensor.
The ideal sensor range for the specific location will be set automatically again after changing the battery.



Check that there are no objects in front of the sensor after the battery replacement was completed.

After you have replaced the battery, move away from the sensor range. Wait 15 seconds in order to allow the system to set the ideal sensor range. Then after the self adjustment has taken place the solenoid valve will be opened and closed for 1 second as an indication that the ideal sensor range was set and the product is ready for use.

IMPORTANT: Spent batteries should not be disposed of with normal household waste. Contact your local authority for information on waste disposal and recycling.

MAINTENANCE

FILTER CLEANING INSTRUCTIONS

These models are provided with a stainless steel filter preventing foreign particles to enter the lines. It is recommended to clean the filter every six (6) month. If the water flow has decreased, this may be because the filter is clogged. The filter can be cleaned as follows:

1. a. Shut-off the water shut off valve.
   b. Disconnect the water supply pipe from the adaptor and disassemble the filter.
   c. Wash the filter under running water.
   d. Reassemble the parts.
   e. Restore the incoming water supply and make sure that there is no water leakage.

SOLENOID VALVE SERVICING

The solenoid valve diaphragm requires periodical cleaning every six (6) month.
Remove the diaphragm from the solenoid valve and examine it for dirt. in case it is dirty or clogged, wash it under running water and reassemble it.
Do not attempt to dismantle the solenoid valve if you are unfamiliar with electronic solenoid valves.

CARE AND CLEANING OF CHROME AND SPECIAL FINISHES

DO NOT use steel wool or cleansing agents containing alcohol, acid, abrasives, or the like. Use of any prohibited cleaning or maintenance products or substances could damage the surface of the outlet. For surface cleaning of outlet us **ONLY** soap and water, then wipe dry with clean cloth or towel. When cleaning bathroom tile, the outlets should be protected from any splattering of harsh cleansers.

If system chemical disinfection is practiced, chlorine can be used (calculated chlorine concentration of 50mg/l maximum in water per one hour dwell time) at service interval frequency.

LIMITED WARRANTY

Please refer to www.caroma.com.au for details on warranty of this product.

If you have any other questions do not hesitate to contact customer service on 13 14 16.

Please note, warranty does not cover product damage caused by the following:

- Incorrect installation.
- inversions of supply pipes.
- Pressures or temperatures exceeding recommended limits.
- Improper manipulation, tampering, bad or lapsed maintenance.
- Foreign bodies, dirt or scale introduced by the water supply.

TROUBLESHOOTING

PROBLEM	INDICATOR	CAUSE	SOLUTION
No water coming out of the outlet:	1.Sensor flashes continuously when user's hands are within the sensor's range.	Low battery.	Replace battery
	2. LED in the sensor does not flash once when user's hands are within the sensor's range.	1. Range is too short.	Increase the range
		2. Range is too long.	Decrease the range
		3. Battery is completely used up	The battery must be replaced.
		4. Unit is in "Security Mode"*	
		5. Sensor is picking up reflections from the washbasin or another object.	Eliminate cause of reflection.
	3. LED in the sensor flashes once when user's hands are within the sensor's range.	1. Debris or scale in solenoid.	Unscrew solenoid, pull out the plunger and the spring from the solenoid and clean them. Use scale remover material if needed. When replacing the plunger, please make sure that the spring is in vertical position.
		2. The central orifice in the diaphragm is plugged or the diaphragm is torn	Clean the orifice or replace diaphragm.
		3. The water supply pressure is higher than 8 bar.	Reduce the supply water pressure.
		4. The water supply pressure is under 8 bars and yet the pressure in the outlet's body is higher. This situation could be caused by a sudden increase in the water supply pressure that the backcheck prevents from dropping, even after water supply pressure drops under 8 bars.	Shut off water supply and unscrew one of the flexible pipes in order to reduce the pressure that blocks the product.
Water flow from spout does not stop:	1. Sensor flashes once when user's hands are within the sensor's range.	1. Debris or scale in diaphragm	Clean the orifice or replace diaphragm.
		2. Connectors between the electronic unit and the Dual power input box are disconnected or not connected properly	Connect the connectors properly. Refer to pages 8/13/17 to see how.
	2. LED in the sensor does not flash once when user's hands are within the sensor's range.	1. Sensor is dirty or covered.**	Clean or eliminate case of interference.
		2. Sensor is picking up reflections from the washbasin or another object.	Decrease the range or eliminate cause of reflection.
Water flow diminished		Filter or aerator is clogged	Remove, clean, re-install

* "Security Mode": If the sensor is covered for more than 90 sec. the outlet will automatically shut off water flow.
To return to normal operation remove any blockage.
** In this case, the water flow will stop anyway after 90 seconds because of the security time.