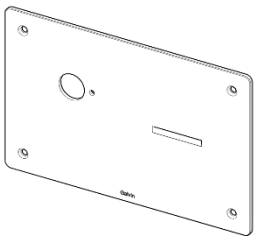
Flowmatic® Wall Sensor Plate with Bluetooth



PRODUCT CODE:

- **150.70.11.11**

SPECIFICATIONS

- The Flowmatic® Wall Sensor Plate with Bluetooth is an aesthetically pleasing, single temperature water control unit, which can be used for hand basins, sinks, or any application to initiate a controlled flow of water.
- The multiple time cycle option is able to be adjusted on site which provides the facility manager the flexibility of adjusting to suit user requirements.
- Sensor circuit boards are supplied standard with a lacquer finish to limit the damage that may be caused by moisture
- Built in capacitors help suppress external noise and provide a continuous, reliable delivery of water.
- 3mm thick stainless steel face plate with hand activation sensor. It is designed to be mounted flush into the wall/trough.
- Flowmatic® Electronic controller is a 24V AC electronic control system allowing the Flowmatic® Wall Sensor Plate to be used in various applications. Controller is pre-programmed and ready to use. The solenoid will open for a specific time once the sensor detects hands movement. The standard program can be modified to suits individual needs. To modify the operation settings a compatible Android or IOS device with Bluetooth is required.

WARNINGS: Special attentions to be paid on notes, photos, images, or drawings of assembly steps marked with the warning symbol.

TECHNICAL DATA

Power Supply (Required – not supplied)	Type	Transformer
	Input	240V - 50Hz 30VA
	Output	24V AC
Sensor	Type	Infra-Red
	Activation	Hand movement
Controller	Input Voltage	24V AC
	Program type	Flowmatic
	Connections	Terminal Plug 2 way 3.81mm or Molex 2.36mm, 3 Way, Female
Finish (user)		Stainless Steel

NOTE: *Galvin Engineering continually strive to improve their products. Specifications may change without notice.*

TOOLS REQUIRED

- T20 Post Torx Key
- Silicone Sealant

PRE - INSTALLATION

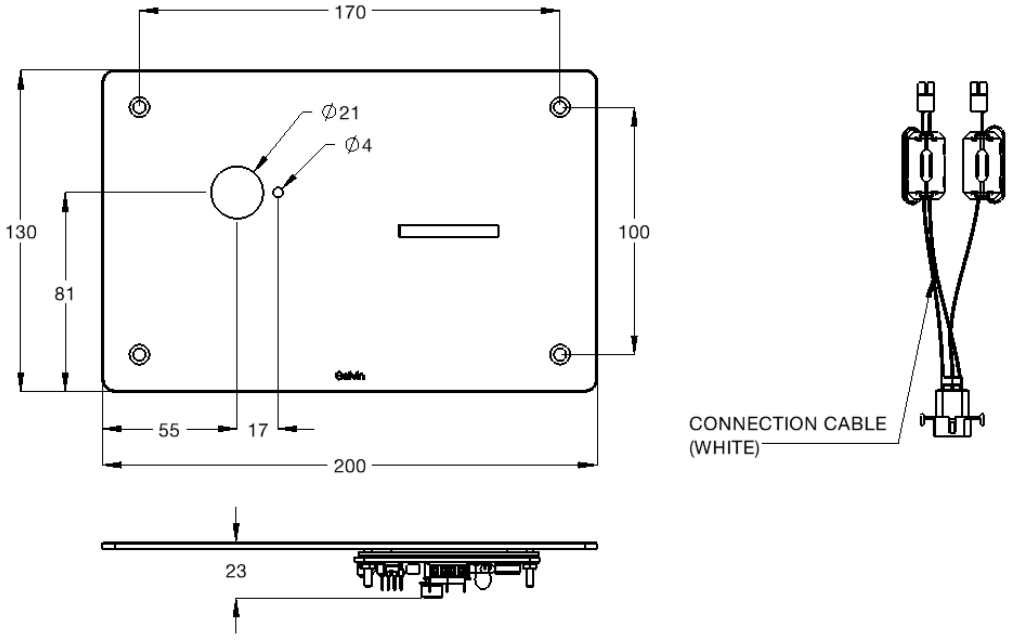
IMPORTANT:

- **INSTALLATION COMPLIANCE:** Galvin Engineering products must be installed in accordance with these installation instructions and in accordance with AS/NZS 3500, the PCA and your local regulatory requirements. Water and/or electrical supply conditions must also comply to the applicable national and/or state standards. Failing to comply with these provisions shall void the product warranty and may affect the performance of the product.
- Ensure that access to the sensor, solenoid valve and transformer/GPO is available for future maintenance when installing the components. It is recommended that isolating valves be installed upstream to the solenoid valve to allow for servicing. All wiring must be able to be removed when installed into cavities or walls, therefore, it is recommended that a minimum of 25mm conduit be used to house the leads.
- Whilst our product designs take into account a broad range of installation types and surfaces, it is important that surfaces which fixtures are mounted to are flat and free from defect. Additionally, ensure any protruding connecting thread is square to the wall so that the outlet sits flat against the wall when installed. This is especially important when installing product ranges that have been designed for correctional and health facilities, where special attention is required to minimise ligature points and areas for concealment of contraband. In addition to ensuring the products are fitted securely and in accordance with the following instructions, consideration shall be given to the use of non-pick mastics such as BASF Sonolastic “Ultra” to ensure a high quality and safe installation.
- Most installation problems are due to damage to the unit during installation or the selection of an inappropriate installation location. Select the location carefully and take care with the installation, consider ease of operation for the end user.
- It is advised that the sensor should not be positioned directly in front of reflecting surfaces, such as ceramic tiles, stainless steel basins or mirrors. Any bright lighting reflecting off a highly reflective surface such as a stainless steel basin, or a high visibility reflective vest, may interfere with correct sensor operation (Refer sensor settings for operation and adjustment)

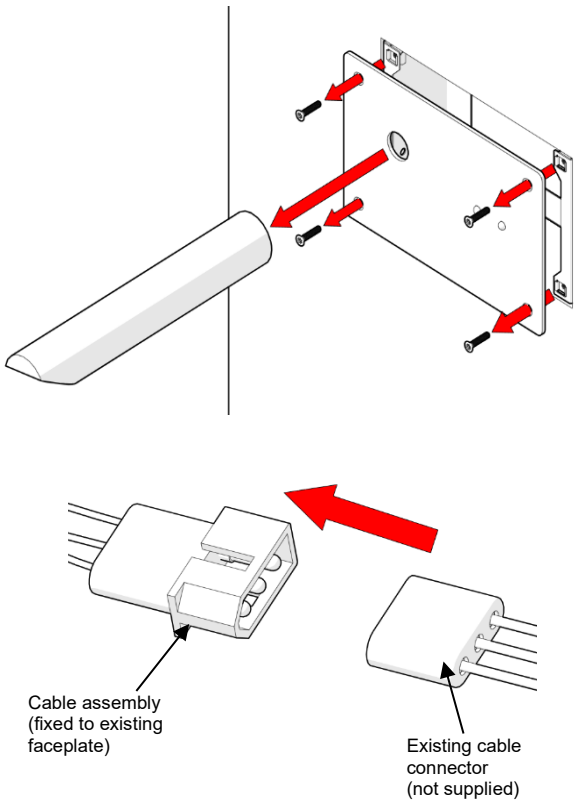
GENERAL INSTALLATION REQUIREMENTS

- Suitable access to the service of all components must be provided.
- Do not apply heat near this product when connecting water lines. Heat generated by soldering could damage plastic or electrical parts and seals and will void the warranty.
- For personal installation assistance and spare parts, please call our head office on 1300 514 074 and speak to our customer service staff.

COMPONENT DIMENSIONS

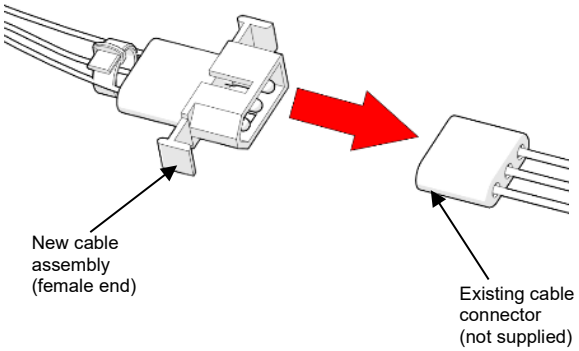


INSTALLATION



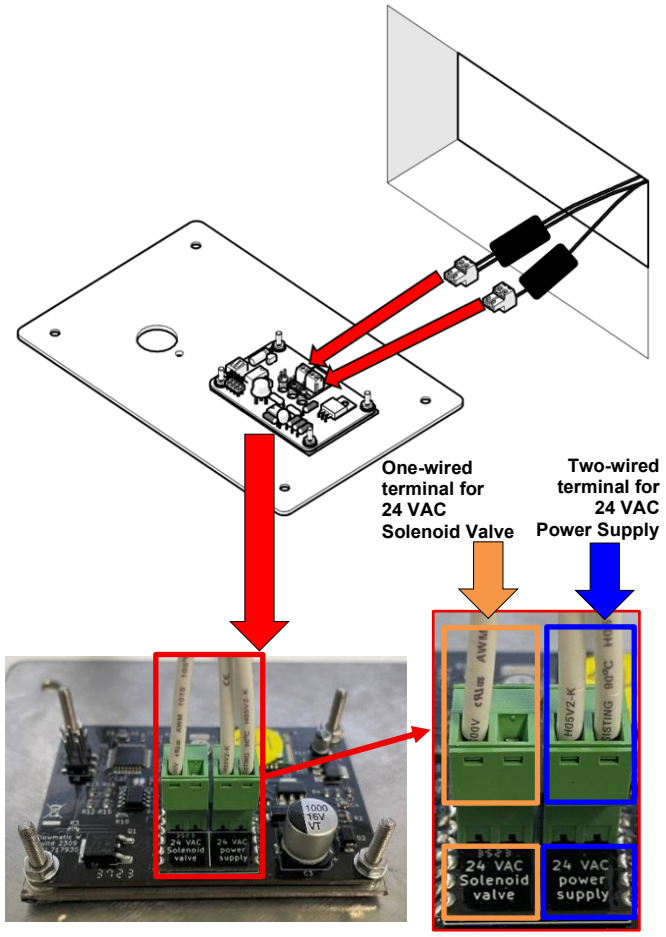
1. Remove existing faceplate

- Unplug the transformer, turn off power and water supply.
- Unscrew fixing screws and scrap. Remove existing faceplate from the wall and disconnect the current cable assembly from the cable connector.
- Disconnect flexible hose and remove the outlet from the faceplate.
- Clean wall surface of any sealant.



2. Connect new cable assembly to existing connection

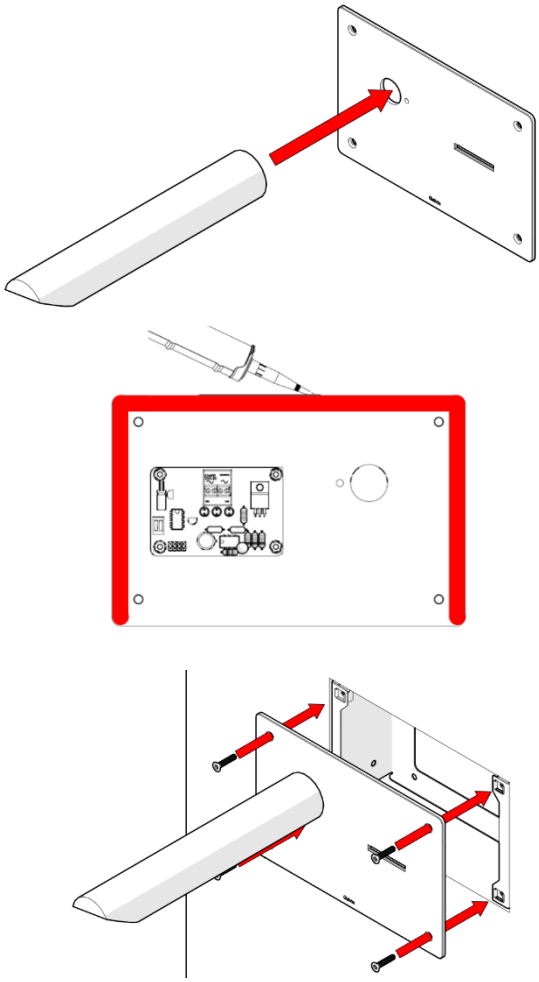
– Connect the female end of supplied cable assembly to existing cable connector.



3. Connect new cable assembly to sensor

– Connect the terminals of the cable assembly to the rear of the Sensor, observing the correct plug connection as shown (**one-wired terminal to Solenoid Valve**, **two-wired terminal to Power Supply**).

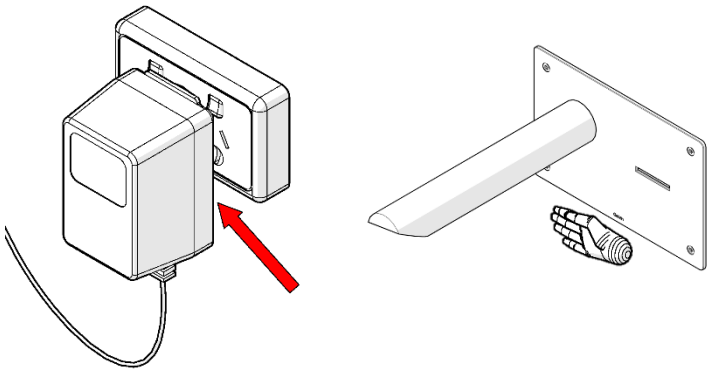
⚠ **Note: Correct plug connection is critical. Incorrect plug connection will prevent sensor from operating and may cause damage to the unit.**



4. Mount new face plate

- Refit the original outlet to the new faceplate and reconnect flexible hose.
- Apply a thin bead of silicone sealant on the top and side edges of the faceplate.
- Mount new faceplate to the wall. Use a T20 Post Torx key to secure the faceplate using the supplied screws.

⚠ **Do not force the faceplate to fit onto wall or attempt to disassemble components, as this could result in damage to sensor.**



(NOT SUPPLIED)

Typical Installation

5. Connect power supply & Check for correct operation

- Plug the 24V AC transformer (not supplied) into a standard mains power point (GPO).
- Turn on the power point and test the unit.
- Wave the back of your hand through the beam to turn the water on and again to turn the water off.

Note: The sensor is factory set to middle of available range and can be adjusted to suit individual installations using the Bluetooth app following the control program modification instructions.

All electrical components should be protected from contact with water or excessive heat and installed in accordance with local regulations.

The connection of this product to mains power supply should be undertaken by a competent person and should conform to local Wiring Regulation – AS3000 Wiring rules.

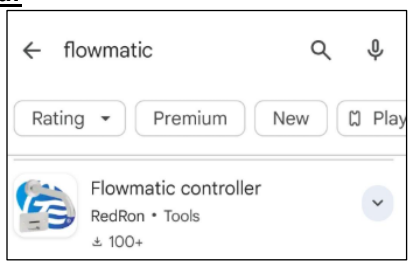
Note: For transformer supply and orders please contact Galvin Engineering

CONTROL MODULE PROGRAM MODIFICATION

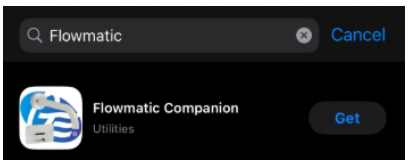
⚠ ***Required to make changes to the controller settings*** **:**

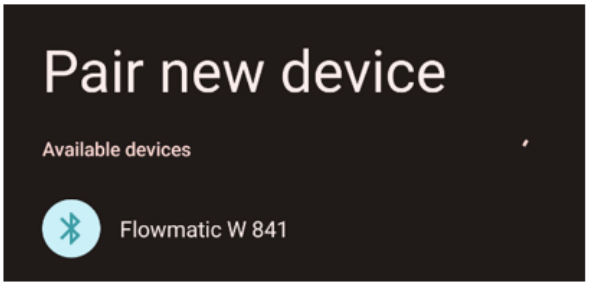
- *Android or IOS device (e.g. smartphone, tablet).*
- *For Android, Install from PlayStore 'Flowmatic controller' software. Locate and download 'Flowmatic controller' software.*
- *For IOS, Install from App Store 'Flowmatic Companion' software. Locate and download 'Flowmatic Companion' software.*

For Android:



For IOS:

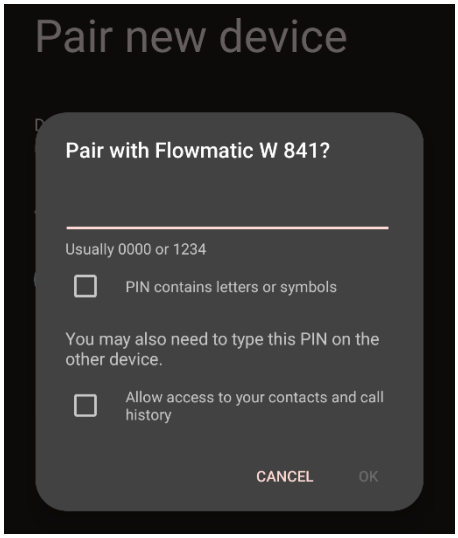




1. Establish Bluetooth connection

– For android, go to the Bluetooth settings on your device then scan for devices. Generally, when scanning the first thing to come up in available devices will be a Mac address that looks like this example (AB:EC:69:57:34:02). This will eventually change to the name of the device (This can be changed to a custom name in the app). Select this device.

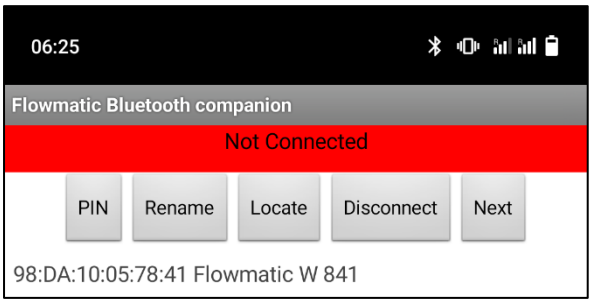
– For IOS, the app will automatically detect and connect to the controller when Bluetooth is on and can be seen directly in the 'Flowmatic Companion" app.



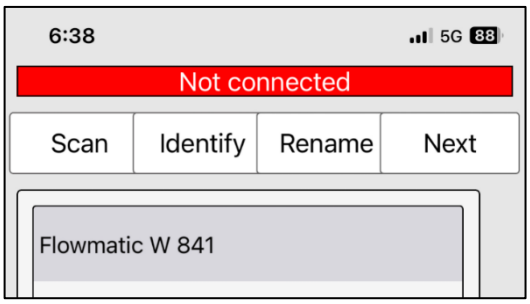
2. Entering the pin

- For android, the device will ask for a pin, which from factory is '1234'. Enter this in. (This pin can be changed later in the app.). Your device is now connected to the controller, and is ready to be adjusted from the 'Flowmatic controller' app.

For Android:



For IOS:

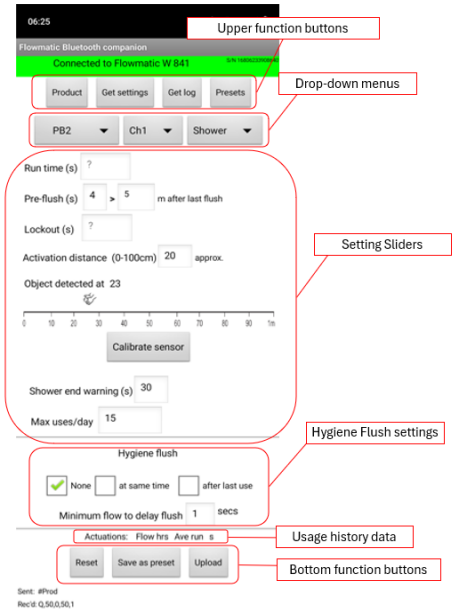


3. Changing controllers settings

- Open the Flowmatic app. The device will appear on the screen with Mac Address first and then controller name e.g. 'AB:EC:69:57:34:02 Flowmatic'.

- Select the 'Flowmatic', this will then update the controller's time clock. Open the setting screen by pressing 'Next' or double tapping the selection.

For Android:



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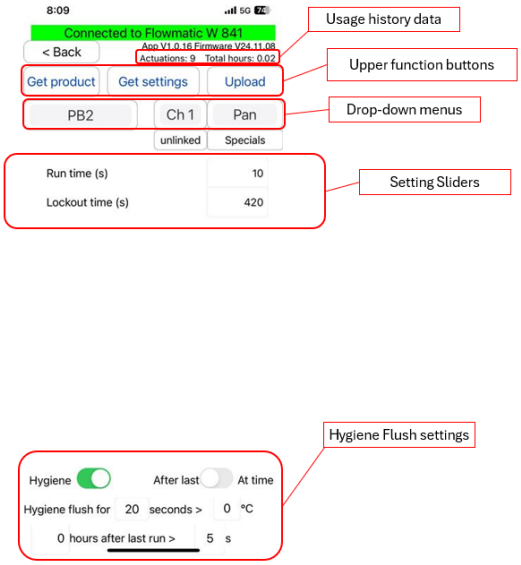
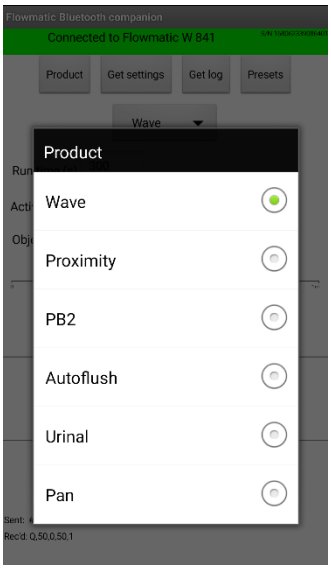


4. Setting screen overview.

- **Upper function buttons**. By pressing the 'Get settings' button the currently stored parameters in the controller's internal memory will be downloaded to the app. The 'Get log' button will pop up the log data screen. The 'Presets' button will list all saved presets. The 'Product' or 'Get Product' button will set the default mode for the controller (for this product, 'Wave' mode). For IOS, the 'Upload' Button is included on top and saves the changes made in the settings.
- **Drop-Down menus**. First menu from left is to select the type of controller the app is connected to. The second menu is to select which 'channel' is going to have parameters changed (only for PB2). The third menu is to declare what is the controlled feature designed for (only for PB2).
- **Setting sliders**. Depending on the selected controlled feature there will appear one, two or three setting sliders.
- **Hygiene flush setting** menu allows to set the time and intervals of hygiene flush.
- **Bottom function buttons** (only for Android) are to be used to manage the controller internal memory.

For Android:



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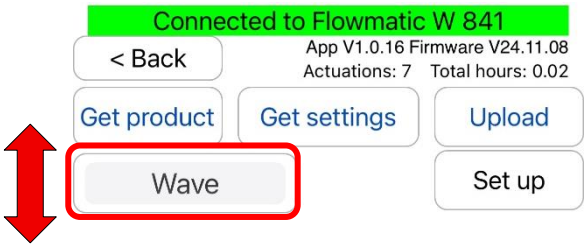
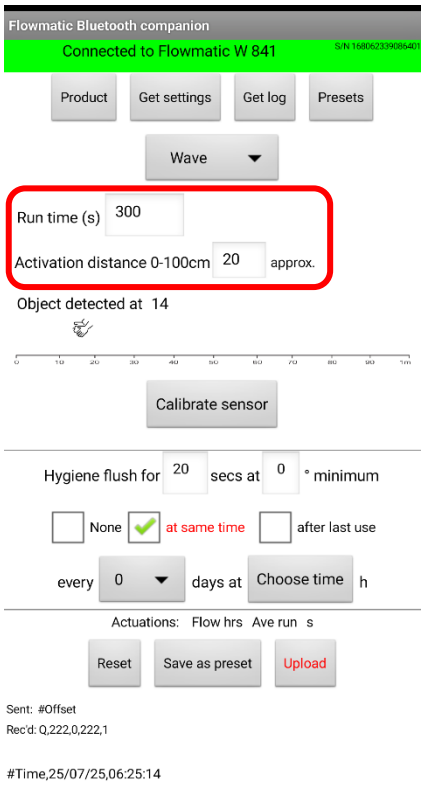


5. Type of controller (left drop-down menu)

- For Android, press the first drop-down menu on the left then a window will appear as shown.
- For IOS, swipe up and down through the button to change the controller type.
- For the 150.70.11.11 controller, the 'Wave' or 'Proximity' selection may be used depending on the application. Please **do not** change the selection to 'Urinal', 'Pan', 'PB2' or 'Autoflush'. ⚠

For Android:



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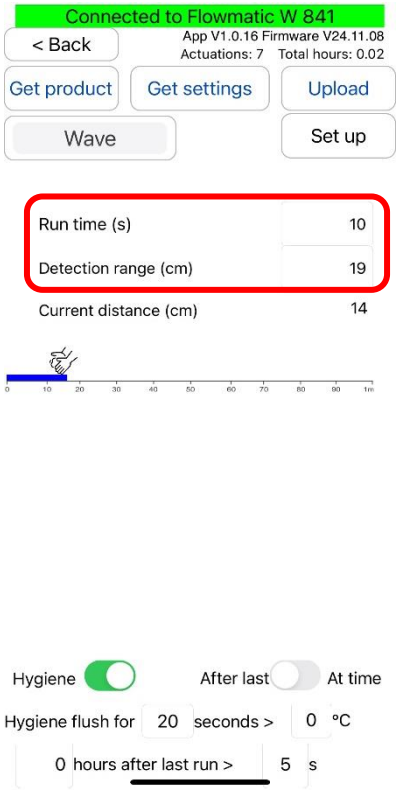


6. Wave', 'Proximity' setting screens contains the same setting parameters.

- 'Run time (s)' slider – to set the required flow time.
- 'Activation distance' / 'Detection range' slider – to set sensing range. By setting smaller value the detection distance is farther. Bigger value is making the detection distance shorter.

7. Choosing the suitable mode

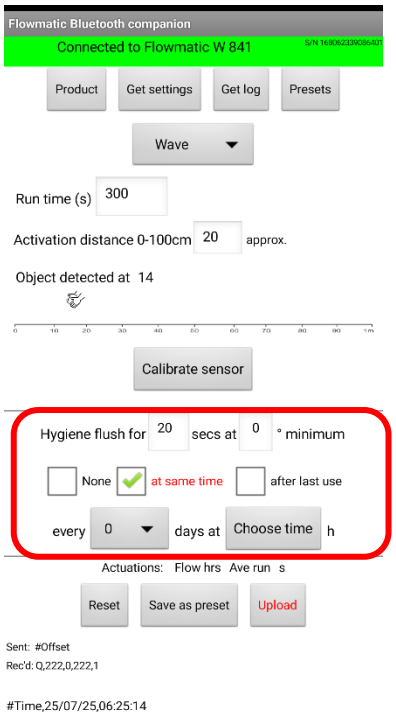
- 'Wave' mode:

- If a hand is detected, the water will start and keep flowing until the time set in the 'Run time' section will pass or another 'wave' will appear in front of the sensor.

- 'Proximity' mode:

- If a hand is detected, the water turns on for as long as the hand is there, up to a certain timeout value set in the 'Run time' section.

For Android:



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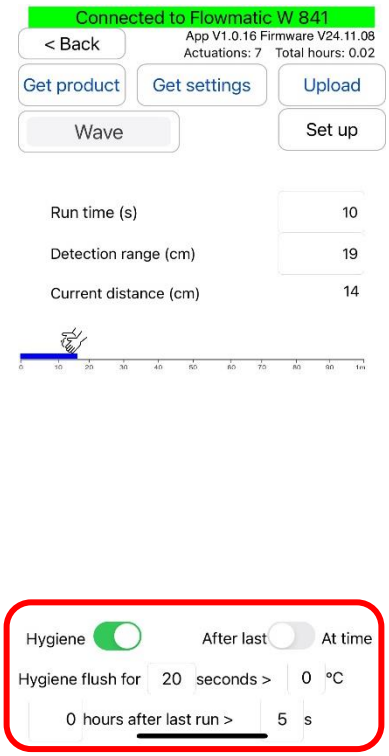
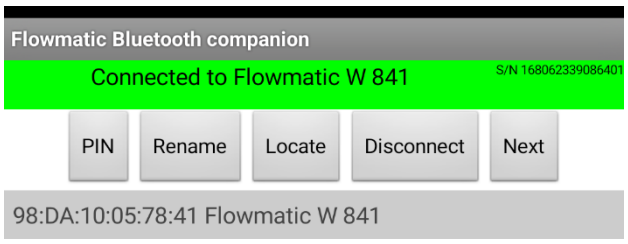


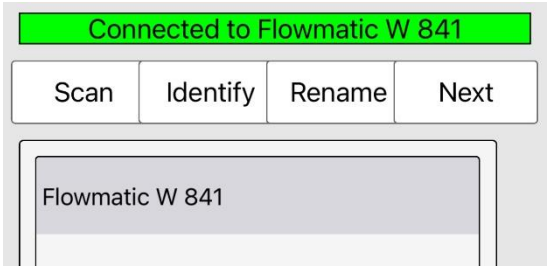
8. 'Hygiene flush' Settings

- Set the required time for Hygiene flush and press 'Upload'.

For Android:



For IOS:



9. Connection menu

- By pressing the back arrow, the connection screen will pop up.
- For Android, the buttons allow to rename the controller, set new PIN, disconnect, or go to setting screen 'Next'.
- For IOS, the buttons allow to rename the controller, scan for new devices, or go to setting screen 'Next'

TROUBLE SHOOTING		
PROBLEM	CAUSE	RECTIFICATION
Sensor Not Responding	Damaged or scratched lens	Replace Sensor Unit
	Sensor lead damaged	Replace sensor lead
	No Power	Check if power supply is connected
	Waving Hand too fast past the sensor	Slow down the action in front of the sensor
	Transformer faulty	Replace transformer
False Activation	Electrical interference	Ensure electrical suppressors are installed correctly
	Reflection from a light source	Re-align sensor or shield light source
No water flow	Sensor not responding	Check fault relating to sensor
	Power supply leads joined incorrectly	Replace electronic components
	Faulty solenoid valve	Check electrical connections, Replace solenoid valve
	Water or structural damage to electrical components	Replace damaged electrical components
	Incorrect connections	Check all connections
	Damage to sensor lead or power supply lead	Check and replace lead & controllers
	Pressure exceeding 500kPa	Reduce pressure to solenoid to 350 kPa
	Water corroded electrical connections	Replace electronic components
Continuous water flow	Solenoid valve jammed open	Remove obstruction from solenoid valve
	Solenoid installed incorrectly	Reinstall valve correctly
Note: Before attempting to replace any of these items check that you have access to re-run the connection leads. If you do not have access or you have any doubts please contact Galvin Engineering for advice before commencing replacement.		

MAINTENANCE INSTRUCTIONS

Sensor:

⚠ **The Electronic Sensor is a non-serviceable product. If damaged the sensor must be replaced.**

- Turn power off at GPO.
- Unscrew the four fixing screws. The silicon seal may have to be cut with care to free the sensor.
- Unplug the solenoid plug and transformer plug from the rear of the sensor. Generally, if the sensor has been damaged by an electrical surge, it is recommended that the transformer be replaced at the same time.
- Replace the sensor and reconnect the new sensor. Plug the solenoid and transformer plugs back onto the rear of the sensor. Fix the sensor plate back onto the wall with the existing screws.

⚠ **Important: Seal the stainless steel face panel and screws using silicon, ensuring it has a water tight seal.**

Note: Before attempting to replace any of these items check that you have access to re-run the connection leads. If you do not have access or you have any doubts please contact Galvin Engineering for advice before commencing replacement.

WARRANTY

Galvin Engineering products are covered under our Manufacturer's Warranty. Galvin Engineering products must be installed in accordance with the installation instructions and in accordance with AS/NZS 3500 and NCC Volume Three, relevant Australian Standards and local authorities applicable to product being installed. Water and electrical supply conditions must also comply to the applicable national and/or state standards, failing to comply with these provisions may void the product warranty and affect performance of the product.

Please visit www.galvinengineering.com.au to view the full warranty, our Installation Compliance and Maintenance & Cleaning information as well as any other additional information.