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Product Installation Guideline

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WaterMark

AS/NZS 3718 Lic WMKA0034 SAI Global

Safe-Cell[®] Electronic Prison Concealed Single Temperature Basin Assembly with Controller

PRODUCT CODE:

- TZ-FLOWTBAS1IN

SPECIFICATIONS

- Safe-Cell® Electronic Prison Concealed Single Temp Basin Assembly provides the complete anti-vandal, antiligature solution. The unique electronic valve assembly, including the illuminated activation button provides a precise delivery of water, and is specifically designed for prisons, mental health facilities and other custodial establishments.
- 1.5mm thick stainless steel face plate with push activation buttons. It is designed to be mounted flush into the wall/trough.
- Basin assembly unit comes with stainless steel water hammer resistant 24V AC solenoids
- Safe-Cell[®] Electronic controller is a 24V AC electronic control system allowing connection of up to 2 button
 inputs and up to 2 solenoids (single solenoid only for single temperature basin assembly units). Controller is
 pre-programmed and ready to use. The solenoid will open for a specific time once the button is pressed. The
 standard program can be modified to suits individual needs. To modify the operation settings a compatible
 Android device with Bluetooth is required.

TECHNICAL DATA

Туре		Transformer	
Input		230-240V – 50Hz	
Output		24V AC 0.9AMPS 22VA	
Cable length		3m	
Input Voltage		24V – 50Hz - 60Hz	
Power Consumption		8W	
Cable length		5m	
Connection	Inlet	1/2" BSP - Female	
	Outlet	1⁄2" BSP - Male	
Drosouro Bongo (kBo)	Min	100	
Pressure Range (kPa)	Max	500	
Temperature (°C)	Min	5	
	Max	90	
Туре		IP68 24V	
Activation		Push Button	
Connections		2 pin connectors	
Cable length		5m	
Input Voltage		24V AC	
Program type		Flowmatic	
Connections		2 pin connectors	
Finish (user)		Stainless Steel	
Nominal Flow Rate (LPM)		N/A	
	InputOutputCable lengthInput VoltagePower ConsumptionCable lengthConnectionPressure Range (kPa)Temperature (°C)TypeActivationConnectionsCable lengthInput VoltageProgram type	Input Output Cable length Input Voltage Power Consumption Cable length Cable length Connection Pressure Range (kPa) Min Max Temperature (°C) Min Max Type Activation Cable length Input Voltage Program type	

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



PRE - INSTALLATION

IMPORTANT:

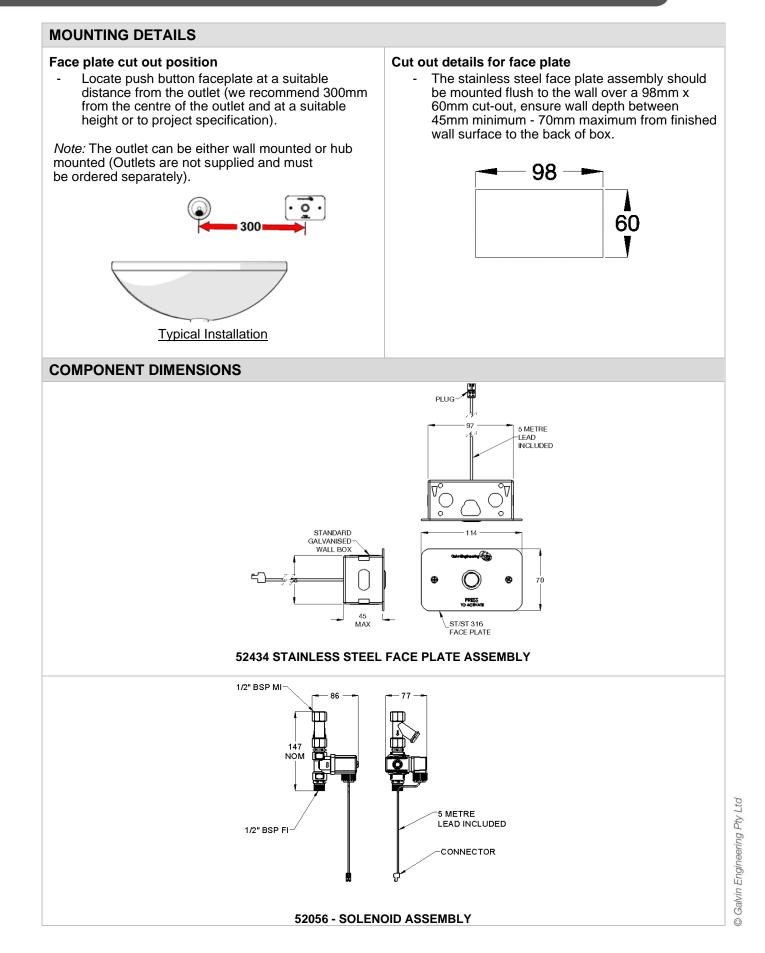
- **INSTALLATION COMPLIANCE:** Galvin Specialised products must be installed in accordance with these installation instructions and in accordance with AS/NZS 3500, the PCA and your local regulatory requirements. Water and/or electrical supply conditions must also comply to the applicable national and/or state standards. Failing to comply with these provisions shall void the product warranty and may affect the performance of the product (Refer supplied installation compliance sheet with the product).
- Pipe sizing shall comply with AS/NZS 3500.1 and shall be hydraulically calculated. -
- Before proceeding with installation first check the solenoid valve supplied is suitable for the site water pressure and conditions. If your water pressure is outside the stated range, please contact Galvin Specialised.
- Ensure all supply lines are flushed thoroughly to remove debris prior to the installation of this product. A line strainer is supplied to protect the solenoid valve from debris.
- Pressure reduction valve or water hammer device may be required to comply with recommended maximum supply pressure.
- We recommended a thermostatic mixing valve is used to provide premixed water to the valve and pressure reduction valve may be required to comply with recommended maximum supply pressure.
- Ensure that access to the push button, 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. The unit is supplied with 5 meters of lead on the transformer and a 5 meters lead from the solenoid. Additional lead lengths may be accommodated up to a length of 5m but must be ordered separately.
- Whilst our product designs consider a broad range of installation types and surfaces, it is important that surfaces which fixtures are mounted to are flat and free from defect. This is especially important for our Safe-Cell® range 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.

GENERAL INSTALLATION REQUIREMENTS

- Do not cut the wires or extended the existing leads without using a correct lead extension from Galvin Specialised, as this will void warranty.
- Suitable access to the service of all components must be provided.
- It is recommended that acoustic dampening products or materials be used in facilities where increased levels of sound protection is required. A water hammer arrestor may also be required.
- The number of valves and simultaneous demand must be considered when sizing pipes. If other fixtures are connected to the supply line, calculations of flow rates and pressures must be undertaken to ensure adequate water supply.
- Limit the number of changes of directions in pipe work. This will result in less friction loss, better valve performance and reduce potential water cavitation noise.
- We recommended fitting isolating valves before solenoid for easy servicing.
- Do not apply heat near this product during connecting water line. 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.

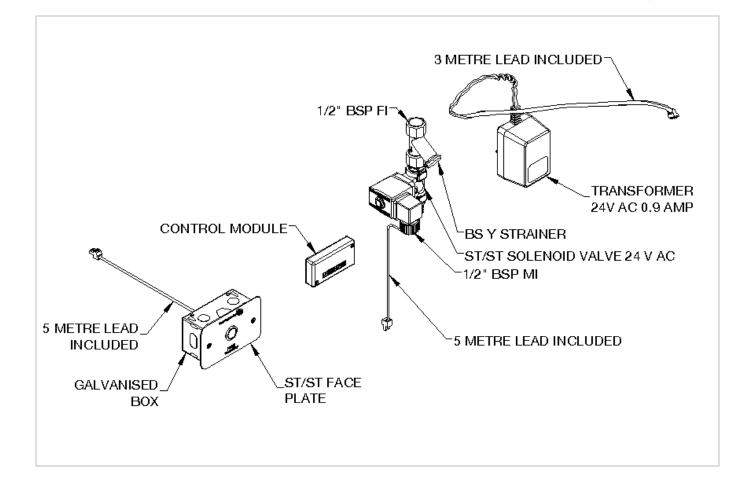


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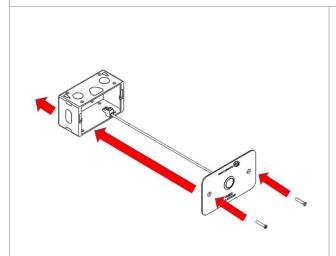
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INSTALLATION

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Avoid common installation errors :

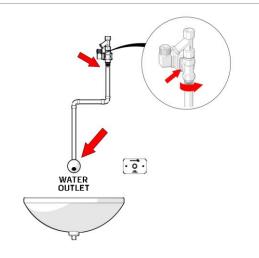
- Incorrect supply pipe size installed.
 - Non-compliance to Australian Standards.
 - Water pressure not tested before installation



1. Mount face plate

- The stainless steel face plate is always mounted flush to the wall.
- Mount supplied Galv Inwall box into the wall 1 or 2mm below the finished wall surface.
- The Galv Inwall box can be fixed to a masonry wall or wall frame using screws suitable for the fixing method. (Fasteners to be supplied by installer).
- We recommended that all cabling is fed through 25mm conduit to make servicing and replacment easier.
- Apply a thin bead of silicon on the edge of the wall cut out.
- Fit the face plate to Galv Inwall box with supplied screws, use supplied snake eye key.
- If extension leads are required, please contact Galvin Specialised.
- Do not force the faceplate to fit onto wall or attempt to dissamble components, as this could result in damage to sensor push button.

- Lines not flushed before installation.
- No access for service.
- Valve not commissioned properly.



- 2. Connect solenoid
 - Connect solenoid assemblies to the outlet as shown and in accordance with AS/NZS 3500.
 - Ensure that the solenoid is installed in the correct direction (the arrow on the solenoid body must align with the direction of water flow).
 - Line strainers are supplied attached to the solenoid valves. Removal of these strainers may void the warranty.

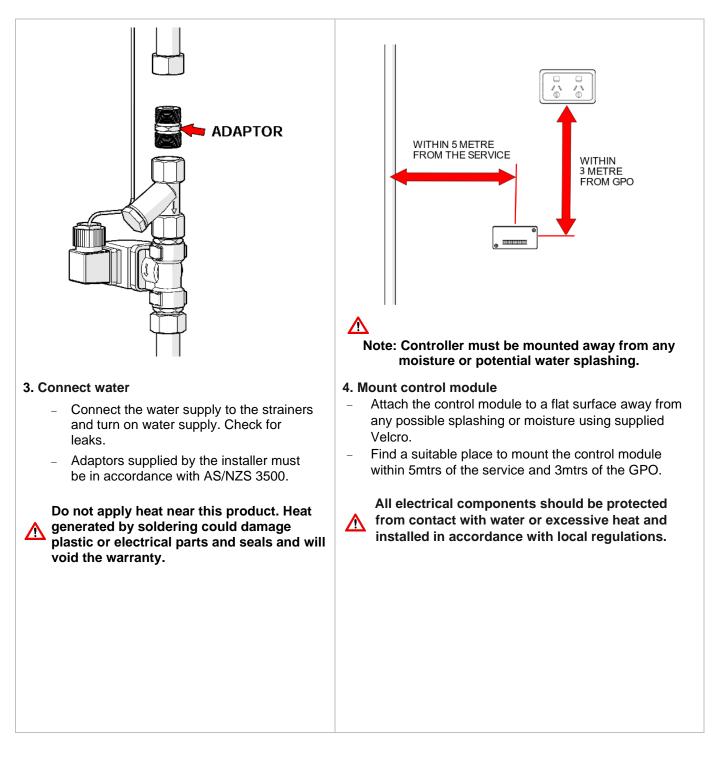
Ensure no thread tape, copper swarf, sand or other debris enters and fouls the solenoid valve.

Make sure solenoid valve is orientated such that the electrical wiring is not twisted and connectors are easily accessible.

<u>Note</u>: Refer to solenoid operating instructions manual for installation and service maintenance.

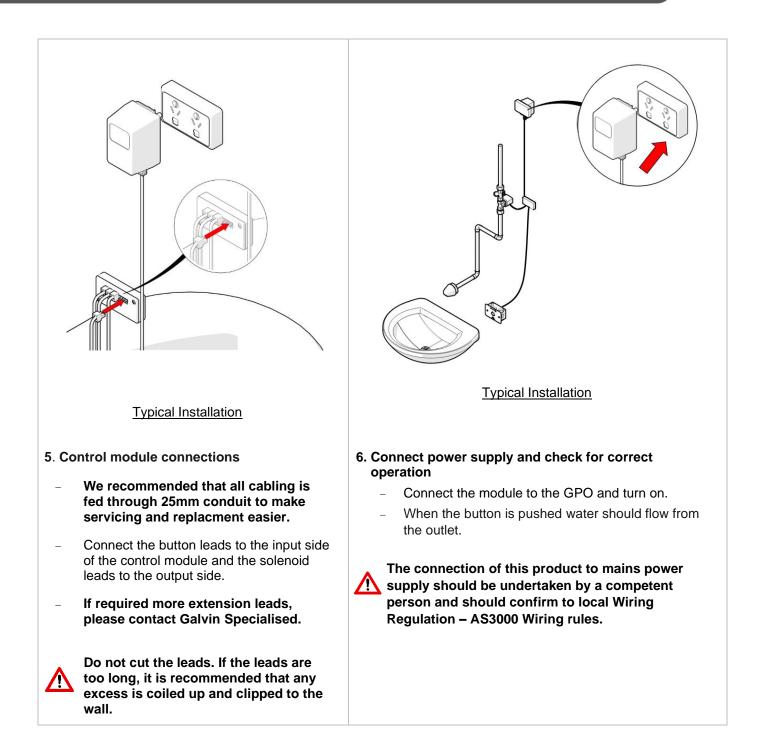


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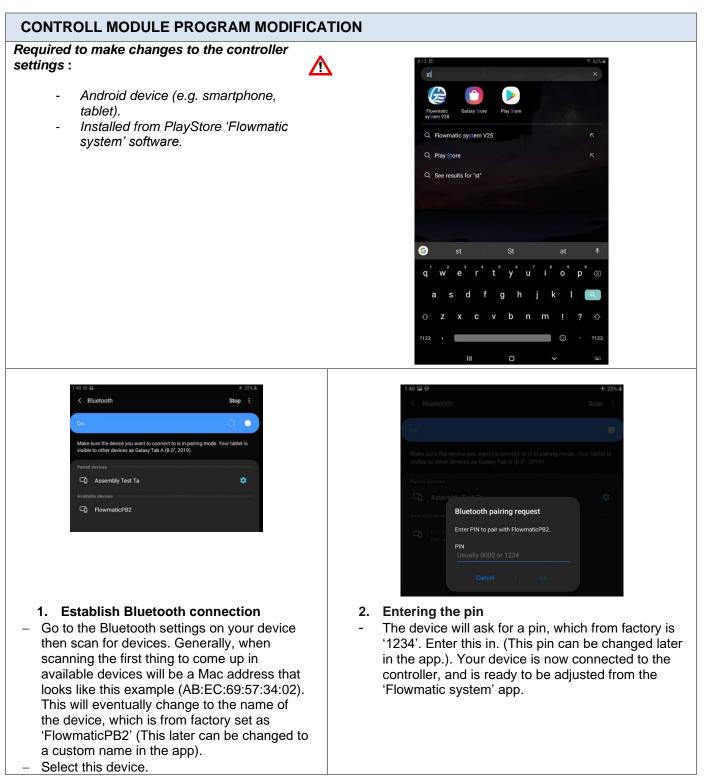


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1:40 圖 😊 🕹 🛧 25% 🛎	8:31 🖬 🕈 👬 Flowmatic system V28 Upper function buttons
Flowmatic Bluetooth system V25 Not connected to a Bluetooth device.	Get settings Get log Presets
Identify Rename Disconnect Settings	PB2 Ch1 Pan
AB:EC:69:57:34:02 Assembly Test Ta 44:44:1B:0C:06:9D FlowmaticPB2	Run time (s) ^{1.0}
	Lockout (s) 8 Hygiene flush Setting sliders
	None at same time after last use Hygiene flush settings
	Actuations: 0 Flow hrs 0.01 Ave run s Send status Save preset Upload Usage history data Bottom function buttons Vals;C1P1000(8x1,00,H0,020,0,T20,A0,M0,t0
 3. Changing controllers settings Open the Flowmatic system' app. The device will appear on the screen. with Mac Address first and then controller name e.g. 'AB:EC:69:57:34:02 FlowmaticPB2'. Select the Flowmatic PB2, this will then update the controllers time clock, and then open the setting screen. 	 4. Setting screen overview. Upper function buttons. By pressing the 'Get settings' button the currently stored in controller's internal memory parameters 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. 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. The third menu is to declare what is the controlled feature designed for. Setting sliders. Depending on the selected controlled feature there will appear one, two or three setting sliders. Hygiene flush setting menu allow to set the time and intervals of hygiene flush. Bottom function buttons are to be used to manage the controller internal memory



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10:27 📽 ## S5% Flowmatic system V28 Connected to Flowmatic PB2 Get settings Get log Presets PB2 Ch1 Pan Run time (s) 20 Product Proximity C Flusher C	10:27 🖬 🛊 📫 🔷 55% 着 Flowmatic system V28 Get settings Get log Presets PB2 Ch1 Pan Run time (s) 2.0 Lockout (s) 8 Lockout (s) 8 Ch1 Ch2 O
Urinal Controller (left drop-down menu) For the PB2 controller only the PB2 selection is correct. Please do not change the selection for the PB2 controller	 Send status Save preset Upload arrect Protected Deleted Etablish AnnOxivit Chanel select (middle drop-down menu) The PB2 controller has built in two channels. They may be controlled independently or one of the channels to be used as half flush and second channel as full flush for a pan.
 5. Designated feature drop-down menu 5. The PB2 controller can be used for showers, basins and pans. Depend of the feature selection setting slides will appear. (e.g. there is only 'Run' time to be set for basin, 'Run' and 'Lockout' times for pans and there is 'Shower end warning' time for shower) 	 122 I + 1



to setting screen 'Next'.

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10.22 E 4 11 Connected to Flowmatic PB2 SN terrored	10:28 at 4 th S55 a Formatic system V28 Connected to Flowmatic PB2 Biology S55 at 555 at 5555 at 5
Get settings Get log Presets	Get settings Get log Presets
PB2 Ch1 Pan	PB2 Ch1 Shower •
Run time (s) 2.0	Run time (m) 0.03333
	0
Lockout (s) 8	Lockout (m)
Link pans (Use either output)	Shower end warning (s) 30
Hygiene flush	
Vone at same time after last use	Max uses/day Unlimited
Actuations: 0 Flow hrs 0.01 Ave run s	Hygiene flush
Send status Save preset Upload	Vone at same time after last use
	Actuations: 0 Flow hrs 0.01 Ave run s
	Send status Save preset Upload
 9. Settings for pans. The default configuration for a pan is two buttons and one or two solenoids. By marking the 'Link pans' the outputs will work simultaneously. Chanel 1 is to be used for the half flush and the channel 2 for full flush. Set the required time and Hygiene flush for half flush (channel 1) and press 'Upload'. Similarly set the required time and Hygiene flush for full flush (channel 2) and press 'Upload'. 	 Settings for shower. PB2 controller is capable of controlling two buttons and two showers (solenoids). Select channel to be changed. Select desired 'Run time'. Select desired 'Lockout time' if required or set to "0" if not. Select 'Shower end warning'. Recommended only if setting a lock out time. Press 'Upload' to store the settings in the controller.
8:31 • • • • • • • • • • • • • • • • • • •	
controller, set new PIN, disconnect or go	



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TROUBLE SHOOTING				
PROBLEM	CAUSE	RECTIFICATION		
Outer ring on push button	No Power	Check power is reaching transformer		
not illuminated.	Leads not connected correctly	Ensure all leads are firmly pushed into connectors		
	No power	Check power is reaching transformer		
	Faulty solenoid valve	Check electrical connections, replace solenoid valve		
No water flow	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 350kPa		
	Water corroded electrical connections	Replace electronic components		
	Solenoid valve jammed open	Remove obstruction from solenoid valve		
Continuous water flow	Solenoid installed incorrectly	Reinstall valve correctly		



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MAINTENANCE INSTRUCTIONS

Solenoid Valve:

- Turn the water supply off and activate the push button to drain as much water from the installation as possible, and then turn the power off at the GPO.
- Depending on the location of the solenoid valve it may be more convenient to remove the solenoid valve completely from the installation to service it.
- The solenoid may be disassembled and checked for debris and cleaned to avoid potential damage to the diaphragm. Please take note of the location of the components and reassemble in the correct order, as there is a spring in the housing that may inadvertently spring out.
- Service or replace the solenoid and re-install into the line. Push the power plug from the sensor back onto the solenoid.
- It is recommended that the line strainer be serviced and cleaned at this stage to ensure that dirt and grit isn't restricting the flow
- Ensure the bypass tap on the valve is in the closed position

Push Button, Face Plate, Control Module and Power Transformer

These items are non-serviceable products. If damaged they must be replaced. If there appears to be any problems with these items please contact Galvin Engineering.

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 Specialised for advice before commencing replacement.

WARRANTY

The warranty set forth herein is given expressly and is the only warranty given by the Galvin Engineering Pty Ltd. With respect to the product, Galvin Engineering Pty Ltd makes no other warranties, express or implied. Galvin Engineering Pty. Ltd. hereby specifically disclaims all other warranties, express or implied, including but not limited to the implied warranties of merchantability and fitness for a particular purpose.

Galvin Engineering Pty Ltd products are covered under our manufacturer's warranty available for download from www.galvinengineering.com.au Galvin Engineering Pty Ltd expressly warrants that the product is free from operational defects in workmanship and materials for the warranty period as shown on the schedule in the manufacturer's warranty. During the warranty period, Galvin Engineering will replace or repair any defective products manufactured by Galvin Engineering without charge, so long as the terms of the Manufacturer's warranty are complied with.

The remedy described in the first paragraph of this warranty shall constitute the sole and exclusive remedy for breach of warranty, and Galvin Engineering Pty Ltd shall not be responsible for any incidental, special or consequential damages, including without limitation, lost profits or the cost of repairing or replacing other property which is damaged if this product does not work properly, other costs resulting from labour charges, delays, vandalism, negligence, fouling caused by foreign material, damage from adverse water conditions, chemical, electrical or any other circumstances over which Galvin Engineering has no control. This warranty shall be invalidated by any abuse, misuse, misapplication, improper installation or improper maintenance or alteration of the product.

410 Victoria Road, Malaga, Western Australia, 6090 Within Australia: 1300 514 074 Outside Australia P: +61 (0)8 9249 5900 F: +61 (0)8 9249 5916 sales@galvinengineering.com.au www.galvinengineering.com.au ABN: 78 008 719 382 PERTH | SYDNEY | MELBOURNE | BRISBANE | ADELAIDE

