

WaterMark

AS/NZS 3718 Lic WMKA00 SAI Global

Product Installation Guidelines

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

PRODUCT CODE:

- TZ-FLOWTBAS2IN

SPECIFICATIONS

- Safe-Cell® Electronic Prison Concealed Dual Temperature Basin Assembly provides the complete anti-vandal, anti-ligature 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.
- 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. Controller is pre-programmed and ready to use. The solenoids will open for a specific time once the appropriate 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	
Power Supply	Input		230-240V – 50Hz	
	Output		24V AC 0.9AMPS 22VA	
	Cable length		3m	
	Input Voltage		24V – 50Hz - 60Hz	
	Power Consumption		8W	
	Cable length		5m	
	Oserastian	Inlet	1/2" BSP - Female	
Solenoid	Connection	Outlet	1⁄2" BSP - Male	
	Dressure Dange (kDe)	Min	100	
	Pressure Range (KPa)	Max	500	
		Min	5	
	remperature (C)	Max	90	
	Туре		IP68 24V	
Sensor	Activation		Push Button	
	Connections		2 pin connectors	
	Cable length		5m	
	Input Voltage		24V AC	
Controller	Program type		Flowmatic	
	Connections		2 pin connectors	
Finish (user)			Stainless Steel	
Nominal Flow Rate (LPM)			N/A	

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.

MOUNTING DETAILS

Face plate cut out position

 Locate push button faceplate at a suitable distance from the outlet (we recommend 300mm from the centre of the outlet and at a suitable height or to project specification).

Note: The outlet can be either wall mounted or hub mounted (Outlets are not supplied and must be ordered separately).



Typical Installation

Cut out details for face plate

 The stainless steel face plate assembly should be mounted flush to the wall over a 98mm x 60mm cut-out, ensure wall depth between 45mm minimum - 70mm maximum from finished wall surface to the back of box.





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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.



- 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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CONTROLL MODULE PROGRAM MODIFICATION Required to make changes to the controller settings : $\mathbf{\Lambda}$ Android device (e.g. smartphone, tablet). Installed from PlayStore Q Flowmatic system V25 'Flowmatic system' software. Q Play Store Q See results for "st" G w u b n m 0 G Assembly Test Ta ٠ G FlowmaticPB2 Bluetooth pairing request Enter PIN to pair with FlowmaticPB2 2. Entering the pin 1. Establish Bluetooth connection - Go to the Bluetooth settings on your The device will ask for a pin, which from factory is '1234'. Enter this in. (This pin can be changed later in device then scan for devices. Generally, when scanning the first thing to come up the app.). Your device is now connected to the in available devices will be a Mac controller, and is ready to be adjusted from the address that looks like this example 'Flowmatic system' app. (AB:EC:69:57:34:02). This will eventually change to the name of the device, which is from factory set as 'FlowmaticPB2' (This later can be changed to a custom name in the app). Select this device. _

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10	:27 🖬 🕈 👬				🖘 55% 🛢
		Connected to Flo	owmatic Pl		
		Get settings	Get log	Presets	
PE	32	← Ch1		▼ Pan	•
		Run tim	ne (s) 2.0		
	Product				
Į	Wave				0
	Proximity				\odot
łyę	PB2				۲
	Flusher				\odot
	Urinal				\odot
12116	Pan				0

- 5. Type of 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

	Get settings	Get settings Get log Presets	
12	♥ Ch1	♥ Pan	•
	Run time (s) 2.0	
			_
	Lockout (s)	8	
	0		
			0
Shower			
Shower Basin			\odot

- 7. Designated feature drop-down menu
- 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)

	connected to Flowinghe Pbz	Enniversit V20-02.11
	Get settings Get log Presets	
982	✓ Ch1	•
	Run time (s) 2.0	
	0	
	Lockout (s) 8	
	0	
	Link pans (Use either output)	
Ch1		
Ch2		\bigcirc
	Protocolor of Free Hill Stor Processing	

6. 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.

	Connected to FI	owmatic PB2		6/N 7505930243854 Firmware V20.02.11
	Get settings	Get log Pres	iets	
PB2	← Ch1	•	Basin	•
lygiene flush				

- 8. Settings for Basin
- Set the channel no. of the solenoid and activation button to be changed.
- Set the required water flow 'Run time' in seconds for the basin.
- Set the Hygiene flush parameters if required.
- Press 'Upload' to upload the settings to the controller.
- The controller can be used in configurations: one button – one solenoid, one button – two solenoids or two buttons – two solenoids.

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- 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'.



- device, the connection screen will pop up.
- The buttons allow to rename the controller, set new PIN, disconnect or go to setting screen 'Next'.

1028 4:1 55% Powmatic system V28 Connected to Flowmatic PB2 excemptor Get settings Get log Presets PB2 Ch1 Shower • Run time (m) 0 • Lockout (m) 0 Max uses/day Unlimited Hygiene flush Hygiene flush Shower can time after last use Actuations: 0 Flow hrs 0.01 Aver un s Save preset Upload

10. 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.

TROUBLE SHOOTING					
PROBLEM	CAUSE	RECTIFICATION			
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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	
	Water or structural damage to electrical components	Replace damaged electrical components	
No water flow	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	
Continuous water flow	Solenoid valve jammed open	Remove obstruction from solenoid valve	
Continuous water now	Solenoid installed incorrectly	Reinstall valve correctly	

MAINTENANCE INSTRUCTIONS

Solenoid Valve: (Supplied with own instructions booklet)

- 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.

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