

WaterMark AS/NZS 3718 Lic, WMKA0034 SAI Global

Product Installation Guidelines

Version 2, 2 June 2021, Page 1 of 15

Flowmatic[®] Concealed Sensor Assembly With SS Face Plate & ClinicLever Fixed Wall Outlet 275

PRODUCT CODE:

TZ-FLOWTAPC275

SPECIFICATIONS

- Flowmatic[®] automatic concealed wall assembly is an aesthetically pleasing, single temperature water control unit, which can be used for hand basins & sinks.
- 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.
- Built in capacitors and easy fit electrical filters help suppress external noise and provide a continuous, reliable delivery of water.
- 1.5mm thick stainless steel face plate with hand activation sensor.
- Basin unit comes with stainless steel water hammer resistant 24V AC solenoids.
- Flowmatic[®] Electronic controller is a 24V AC electronic control system allowing the Flowmatic[®] Automatic Concealed Sensor Assembly to be used in various applications. Controller is preprogrammed and ready to use. The solenoid will open for a specific time once the sensor will detect hands movement. The standard program can be modified to suits individual needs. To modify the operation settings a compatible Android device with Bluetooth is required.

		Transformer
	Туре	
Input		240V - 50Hz 30VA
Output		24V - 917mA Max 22VA
Cable length		3m
Input Voltage		24V – 50Hz - 60Hz
Power Consumption		8W
Cable length		5m
Connection	Inlet	1/2" BSP - Female
Connection	Outlet	1/2" BSP - Female
Pressure Range (kPa)	Min	50
	Max	500
Temperature (°C)	Min	5
	Max	90
Туре		Infra-Red
Activation		Hand movement (Wave-on/Wave-off)
Input Voltage		24V AC
Program type		Flowmatic
Connections		Terminal Plug 2 way 3.81mm
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	Inlet		1/2" BSP - Female
Outlet	Working Pressure Range (kPa)	Min	50
		Max	500
	Working Temperature Range (°C)	Min	5
		Max	90
Finish (user)			Stainless Steel
Nominal Flow Rate (LPM)		5.0	

PRE – INSTALLATION

IMPORTANT: \Lambda

- **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 to installation compliance sheet supplied with the product).
- 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.
- We recommend a stainless steel thermostatic mixing valve is used to provide pre mixed water to the valve and a stainless steel pressure reduction valve may be required to comply with recommended maximum supply pressure.
- 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. The unit is supplied with a 3 meter lead on the transformer and a 3 meter 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 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, ensuring that there are no gaps between the wall and outlet. 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 taps 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

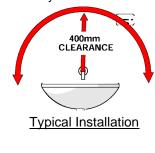
- Do not cut the wires or extend the existing leads without using a correct lead extension from Galvin Specialised, as this will void warranty.
- Suitable access to the service of all components must be provided.
- It is recommended that acoustic dampening products or materials be used in facilities 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 recommend fitting stainless steel isolating valves before solenoid for easy servicing.
- Do not apply heat near this product when connecting water lines. Heat generated by soldering could damage plastic or electrical parts and seals. This 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

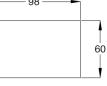
Face plate cut out position

- A position above and to the right of the water outlet is ideal. The best way to select the location is to stand centrally in front of the outlet and extend you right forearm in front of you in a natural arc. Be sure that passing traffic cannot trigger the sensor. Allow at least 400mm clearance.
 - Ensure that when selecting a mounting position nothing is within range of the sensor. If the sensor unit is installed into a location where a nearby wall or object is reflecting the Infrared light back, the unit is effectively blinded and will not operate.



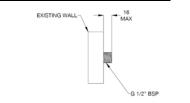
Cut out details for face plate

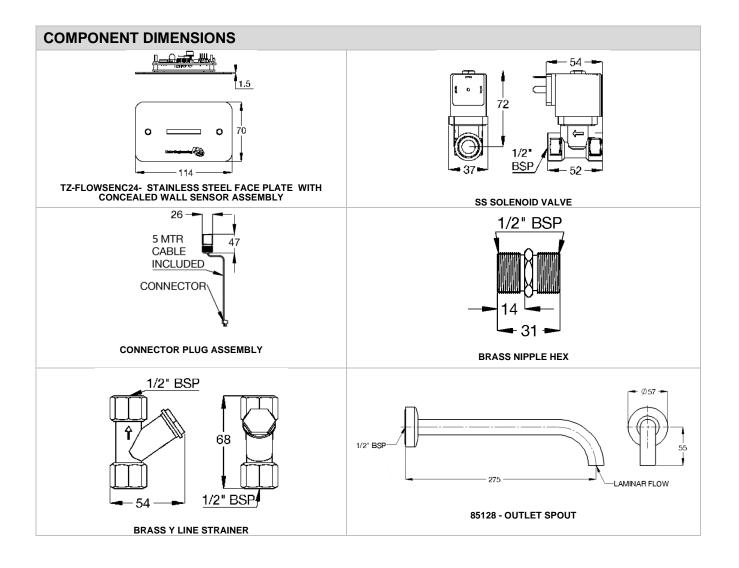
- The unit is supplied with a Galvanised Inwall electrical box and stainless steel face plate. The assembly should be mounted flush to the wall over a 98mm x 60mm cut-out. Ensure wall depth is between 45mm minimum - 70mm maximum from finished wall surface to the back of box.



A Do not install sensor under the spout.

Wall Spud Dimensions for outlet



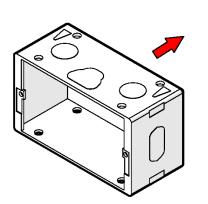


INSTALLATION

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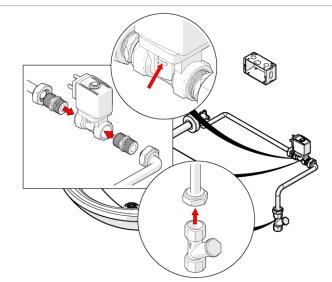
Avoid common installation errors :

- Non-compliance to Australian Standards.
- Water pressure not tested before installation
- Lines not flushed before installation.
- No access for service.
- Valve not commissioned properly.



1. Mount galvanised electrical box

- Mount supplied galvanised box into the wall 1 or 2mm below the finished wall surface.
- The galvanised box can be fixed to a masonry wall or wall frame using screws suitable for the fixing method. (Fasteners to be supplied by installer).



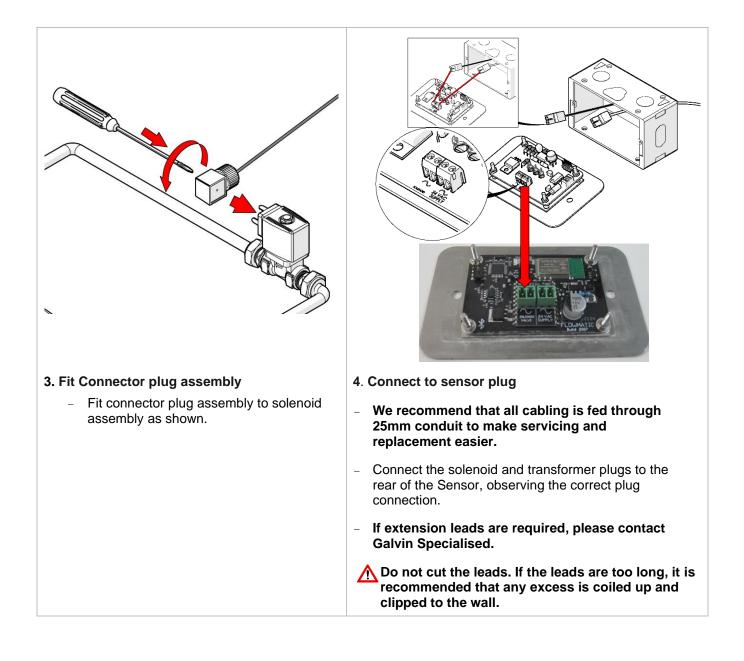
2. Connect solenoid

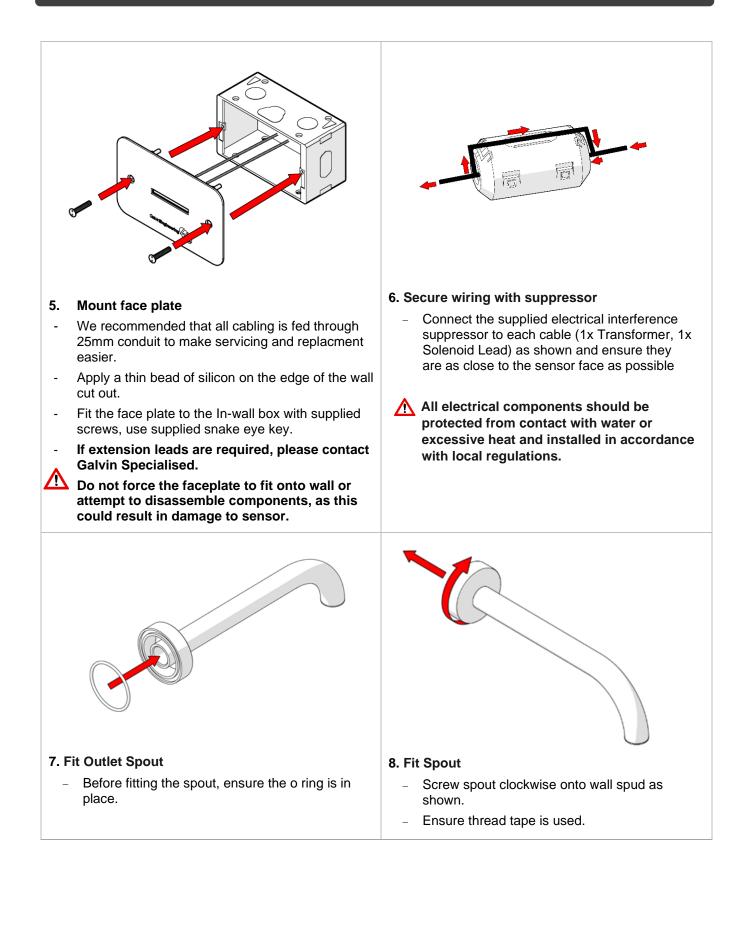
- Connect solenoid assemblies to the outlet as shown and in accordance with AS/NZS 3500
- Ensure that the solenoid is installed in the correct direction (the arrow on the solenoid body must align with the direction of water flow).
- The TZ-FLOWTAPC275 kit comes standard with a line strainer that must be installed upstream of the solenoid valve. Failure to do so may void the warranty.

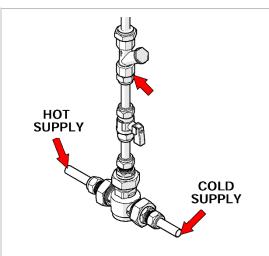
▲ Ensure no thread tape, copper swarf, sand or other debris enters and fouls the solenoid valve.

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

Note: Refer to solenoid operating instructions manual for installation and service maintenance.



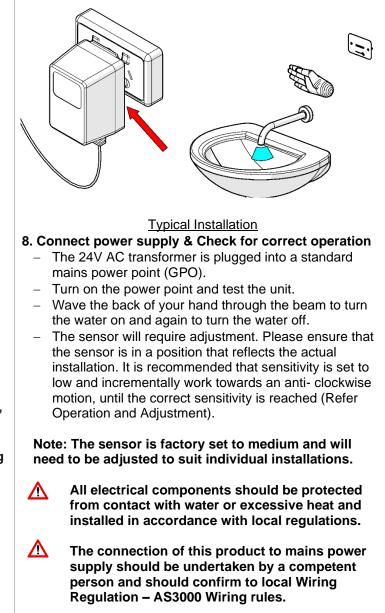




7. Connect water

- Connect the water supply to the strainers and turn on water supply. Check for leaks.
- Adaptors supplied by the installer must be in accordance with AS/NZS 3500.

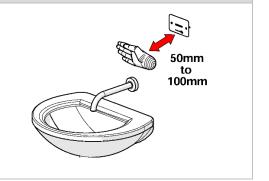
Note: The water supply is provided via normal plumbing practices, either cold or pre-mixed warm, using 2 cistern taps, plumbed to the outlet spout, however it is recommended that a stainless steel Thermostatic Mixing Valve or Tempering Valve be installed (depending on site requirements).



Operation and Adjustment

Operation and Adjustment

- The TZ-FLOWTAPC275 is activated by passing your hand in front of the sensor face within a distance of 50mm –100mm.
- The water will continue to flow until either your hand passes in front of the sensor again or the chosen time frame has passed.

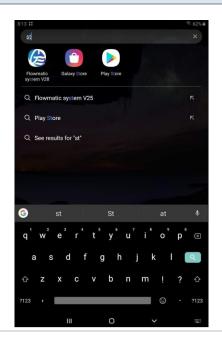


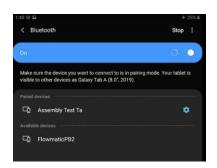
CONTROLL MODULE PROGRAM MODIFICATION

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Required to make changes to the controller settings :

- Android device (e.g. smartphone, tablet).
- Installed from PlayStore 'Flowmatic system' software. Locate and download 'Flowmatic System' software.



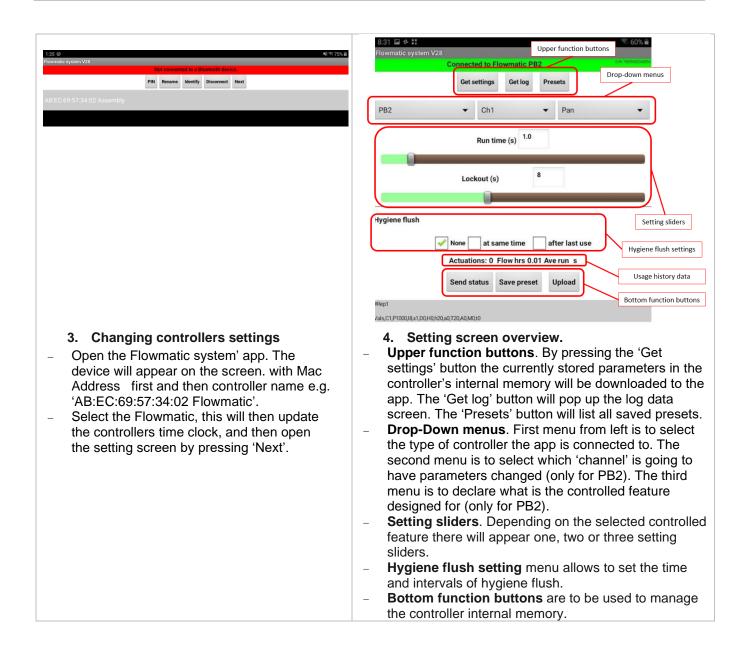


1. Establish Bluetooth connection

- 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.

2. Entering the pin

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 system' app.



147.57 A N 9.755 J	144 D N 1996
Rowmatic system V28 Connected to Assemble	Flowmatic system V28
Product desertion Carlos Streets	Connected to Assembly Cet settings Get log Presets
Wave ()	Water
Wave	Run time (s) 15
Proximity O	
PB2 (C)	Near Detection threshold 5 Current level 0 F
Hygiene flush	Hygiene flush for ⁷²⁰ secs at ⁰ * minimum
Flusher	None 🛹 at same time after last use
Urinal	every 1 🖛 day at 8:50 h
ngt Dan (D	Actuations: 23212 Flow hrs 88.62 Ave run 13.7 s
om google appinenter components av	AutoCal Send status Save preset Upload
	magi
5. Type of controller (left drop-down menu)	6. 'Wave', 'Proximity' setting screens
 For the TZ-FLOWTAPC24 controller the 'Wave' or 	contains the same setting parameters.
'Proximity' selection may be used depending on	 Run time (s) slider – to set the required
the application. Please <u>do not</u> change the	flow time.
selection to the , 'Urinal', 'Pan' 'PB2' or 'Flusher'.	 'Detection threshold' slider – to set sensing
	range. By setting smaller value the
	detection distance is farther. Bigger value
	ie making the detection distance enorter
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screen 'Next'.

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.
- Turn power on and test tap.

Sensor:

- The Electronic Sensor is a non-serviceable product. If damaged the sensor must be replaced.
 Turn power off at GPO.
- Unscrew the two 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 panel back onto the galvanised inwall box with the existing screws.

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

Transformer:

A The Transformer is a non-serviceable product. If damaged the transformer must be replaced.

- Turn power off at GPO and unplug the transformer.
- The transformer comes standard with 3 metres of cable. The cable is connected to the rear of the sensor.
- Determine if cable access is difficult or if the cable is fed through a conduit. If the cable is in a conduit then
 a lead or leads may be required to be tied to the existing cable before it is removed so the new cable can
 be pulled back through.
- Remove the transformer and cable.
- With the new Transformer in place feed the cable back to the sensor and plug in the appropriate plug connector.
- Plug the transformer into the GPO point.
- Turn on the power to the unit and test. Wave the back of your hand through the beam to turn the water on and again to turn the water off.

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.

TROUBLE SHOOTING				
PROBLEM	CAUSE	RECTIFICATION		
Sensor Not Responding	Damaged or scratched lens	Replace Sensor Unit		
	Beam Length to short	Adjust beam to recommended setting		
	Sensor lead damaged	Replace sensor lead		
	No Power	Check power is reaching transformer		
	Waving Hand too fast past the sensor	Slow down the action in front of the sensor		
	Transformer faulty	Replace transformer		
False Activation	Beam length too long	Adjust beam length to recommended setting		
	Electrical interference	Ensure electrical suppressors are installed correctly		
	Reflection from a light source	Re-align sensor or shield light source		
	Sensor not responding	Check fault relating to sensor		
	No power	Check power is reaching transformer		
	Power supply leads joined incorrectly	Replace electronic components		
	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 350 kPa		
	Water corroded electrical connections	Replace electronic components		
Continuous	Solenoid valve jammed open	Remove obstruction from solenoid valve		
water flow	Solenoid installed incorrectly	Reinstall valve correctly		
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TROUBLE SHOOTING

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.

Within Australia: 1300 514 074 Outside Australia: P: +61 (0)8 9338 2344 F: +61 (0)8 9338 2340 sales@galvinengineering.com.au www.galvinengineering.com.au ABN: 78 008 719 382 PERTH I SYDNEY I MELBOURNE I BRISBANE I ADELAIDE

