

Flushtronic

Automatic Urinal Flushing System

Installation Manual



Products

7675, 7680, 7681, 7685, 7690



AS 1172.2
WM-022016



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 1800 062 669

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Reliance Worldwide Corporation (Aust.) Pty. Ltd.
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Product Description

CATALOGUE NUMBER	DESCRIPTION
7675	Surface Mount, Single Stall
7680	Inset Mount, Single Stall
7681	Inset Mount, Single Stall (UK)
7685	Surface Mount, Wide Trough
7690	Inset Mount, Wide Trough

Installation

Take note of the orientation of the sensor for wide trough models, before mounting the backing plate, to ensure correct orientation.

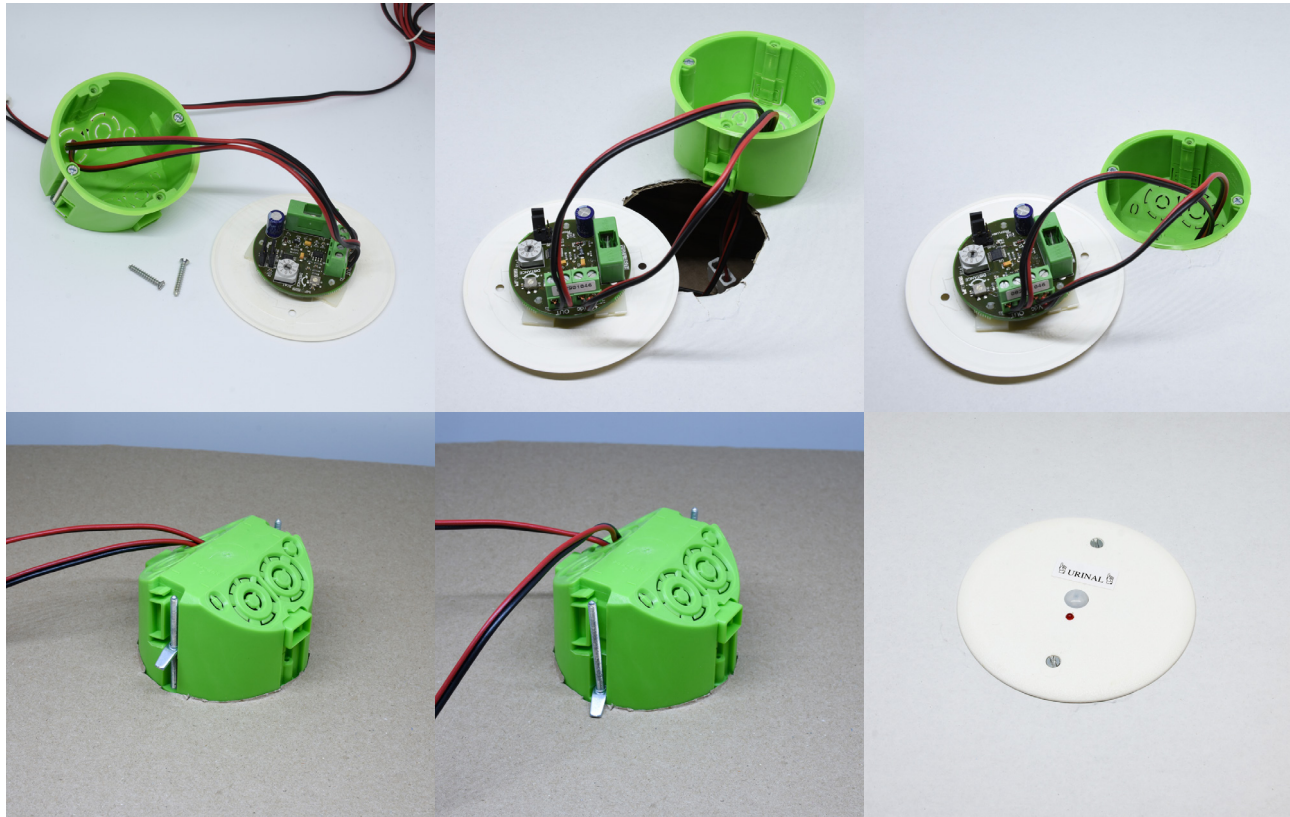
Mounting the sensor (Surface Mount Sensor)

1. Mark the location on the ceiling where the sensor is to be fitted. This should be directly above the urinal, and 100mm out from the urinal wall.
2. Remove the back cover from the sensor.
3. Mount the backing cover of the sensor to the ceiling, drilling a central hole, to allow the wires to pass through into the ceiling.



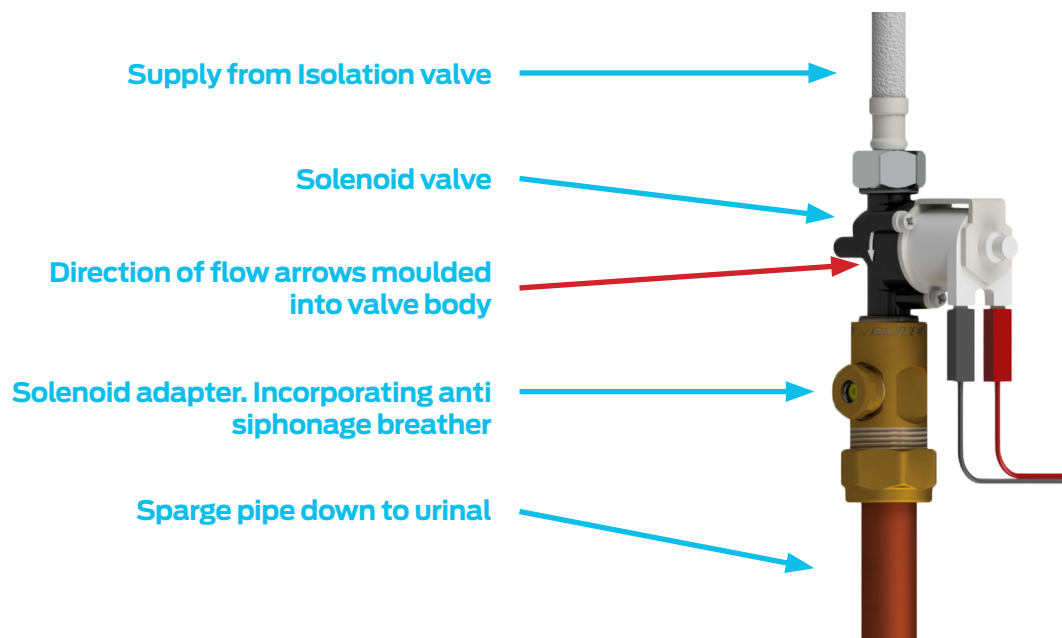
Mounting the sensor (Inset Sensor)

1. Mark the location on the ceiling where the sensor is to be fitted. This should be directly above the urinal, and 100mm out from the urinal wall.
2. The inset mounted sensor is mounted into the ceiling by removing the screws that will retain the white cover. Drill a 68mm diameter hole in the ceiling, using a hole saw. Place the green housing into the ceiling, and tighten the 2 clamp fixing screws. DO NOT over tighten these screws.



Connecting the unit

1. For wide trough models, take note of the sensor orientation sticker affixed to the sensor face. The sensor must be correctly orientated when mounted, to cover wide trough urinals.
2. Install the solenoid adapter onto the $\frac{3}{4}$ " copper urinal sparge pipe, in the vertical position, using the copper olive connection.
3. Connect the solenoid valve to the solenoid adapter previously installed, taking note of the direction of the flow arrows on the solenoid valve.
4. Connect the supplied combination ball valve strainer to the main water supply.



5. Connect the supplied combination ball valve strainer to the inlet side of the solenoid valve, using the supplied flexible connector. The flexible connector must be used, to avoid stress on the solenoid valve body caused by rigid plumbing. Failure to install both the flexible hose, and the ball valve with Y-strainer, will void the warranty.
6. Connect the solenoid leads from the sensor to the solenoid valve.
7. Open the ball valve.
8. Connect the power lead from the power supply to the sensor, and plug the power supply into a suitable 240V, AV outlet.
 - a When power is applied to the sensor, the sensor goes through an initialization phase for approximately 10 seconds. The light on the sensor will be on during this time, and the solenoid valve will briefly open.
 - b Please ensure that a ladder, or other equipment, is not sitting directly under the sensor, and limit movement in the room, to allow the sensor to correctly initialize.
9. Follow the set up and adjustment procedures.

Note: This device must be installed in accordance with NCC Volume 3 (PCA - Plumbing Code of Australia)

Performance data

Delivery Volume:	Adjustable
Flow Rate:	22L/min @ 500kPa
Max Temperature:	60°C
Max Pressure:	1000kPa

The RyeMetal Flushtronic Urinal Flushing Device achieved a 3 Star WELS rating, providing an adequate flush for a Caroma Torres 3S urinal, using 1.8 litres of water, in accordance with AS3982 / AS6400. For a complete list of all the complying urinals, please visit the WELS website, at www.waterrating.gov.au.

Mode of operation

The Flushtronic automatic flushing device is factory set to supply a 4 second main flush, and a 2 second pre-flush. The pre-flush time is always half of the set, main flush time.

The Flushtronic is a smart flush, flushing system.

It detects the presence of urinal users, and performs a half flush, followed by a full flush, 30 seconds later.

If another user arrives in the sensor area before the full flush has activated, the 30 second delay time restarts its countdown, up to a total of 2 minutes, when a full flush is then carried out.

There is then a 20 second delay before the entire cycle starts over.

If another urinal user arrives before the completion of the 20 second delay, the system does not perform the half flush, and automatically re-enters the 30 second cycle for a full flush.

Adjustment procedure

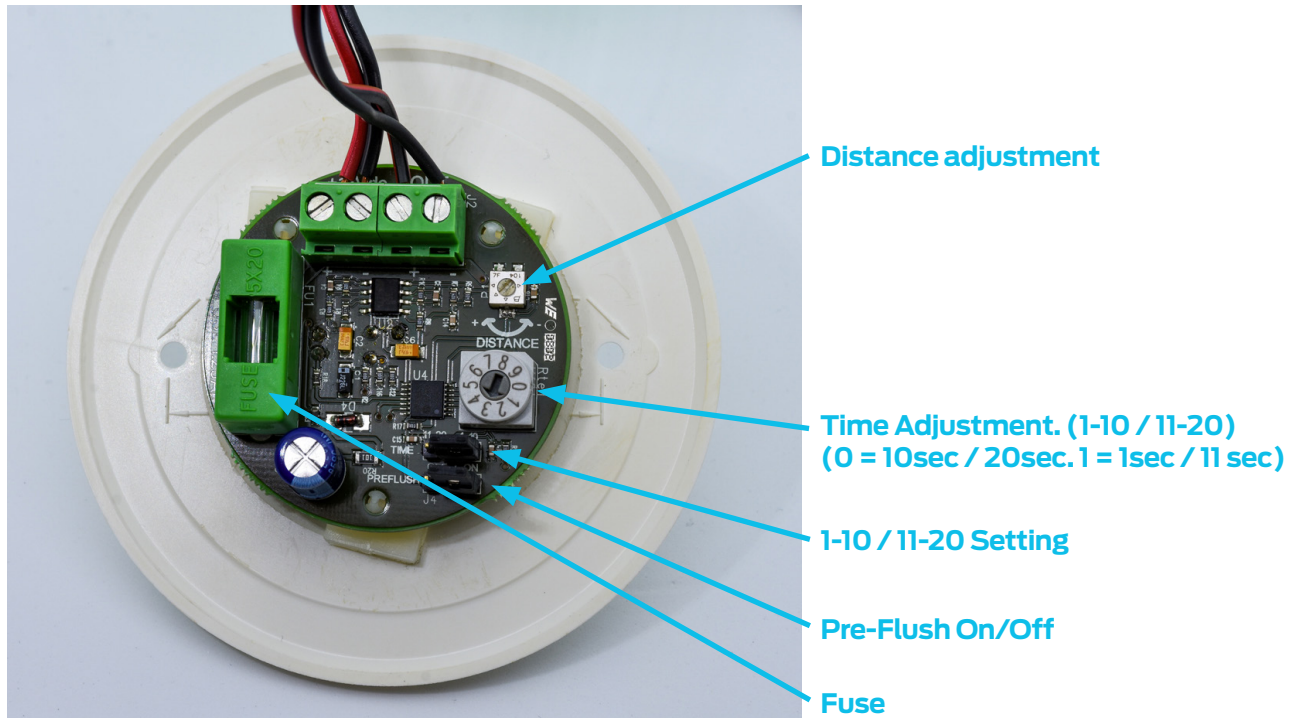
Adjusting the volume of water used for a flushing cycle to achieve a suitable flush, dependent on the type of urinal used can be achieved by manipulating the flush time of the sensor, following the procedure on the next page.

All adjustments done on the sensor must be carried out with the power supply disconnected. Take care to not damage any electronic components whilst making adjustments.

To comply with the requirements of NCC Volume 3, the adjusted flush volume must not be greater than 2.5 litres.

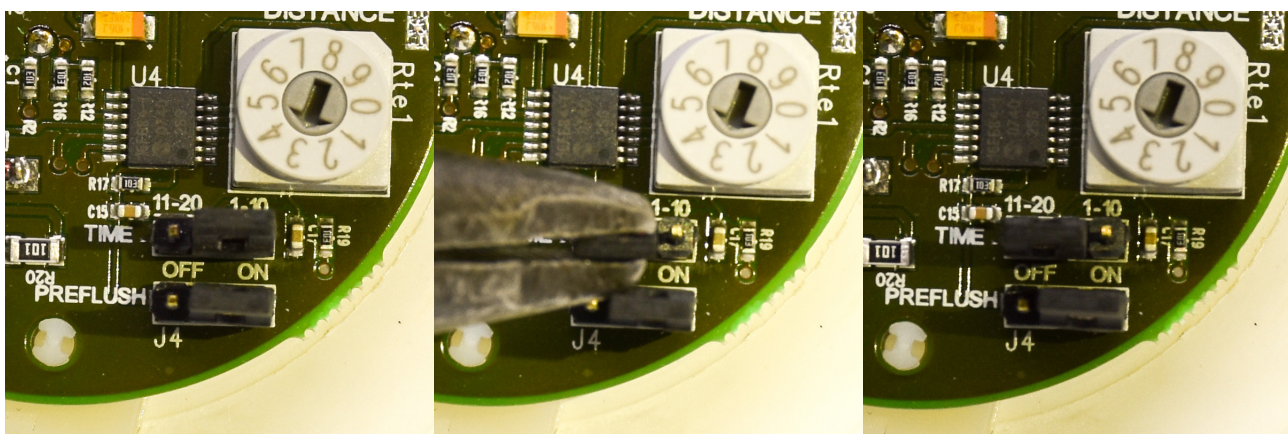
Adjusting the sensor flush time

1. Isolate the power supply.
2. Remove the cover, to gain access to the electronics.
3. Turn the “Time Adjustment” potentiometer, using a small screwdriver, until the arrowed slot points to the number of seconds required, indicating main flush time.
4. Refit the cover plate to outer housing, and re connect power supply.



Notes:

1. Power must be disconnected before removing the cover and making adjustments.
2. To set the flush time greater than 10 seconds, change the 1-10 / 11-20 Setting Jumper to the alternate position, by lifting it off, and replacing it on the alternate pins.



Maintenance, care and cleaning

Depending on the installation environment, and the quality of the water, the following maintenance should be taken to ensure reliability:

- a** Periodically, the Y-strainer incorporated in the ball valve, should be cleaned, to remove any debris.
- b** Lightly wipe the sensor lens clean. Do not use abrasive or solvent based cleaners.

Spare parts

The following spare parts are available from RyeMetal sales. Please call 1800 810 803 and speak with our staff.

PART NUMBER	DESCRIPTION
7626	12V DC Power Supply
7630	Solenoid Adaptor, G $\frac{1}{2}$ x 20Cn
7637	Solenoid Valve, 12V DC, G $\frac{1}{2}$ B x G $\frac{1}{2}$ B
7651	Inset Mount Sensor, Single Sense
7652	Inset Mount Sensor, Wide Sense
7653	Surface Mount Sensor, Single Sense
7654	Surface Mount Sensor, Wide Sense

Warranty

Reliance Worldwide Corporation (Aust.) Pty. Ltd. (RWC) will either replace or repair any defective goods where the defect arose as a result of manufacture for two (2) years (see website for more details). You may contact RWC at the phone number, address or e-mail shown and will be required to return the goods for evaluation. Should the defect be found to be one of our manufacture we will send you a replacement product to your stated address at our expense. Our goods come with guarantees that cannot be excluded under Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and failure does not amount to a major failure.

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Troubleshooting

PROBLEM	ACTION TO TAKE
Unit does not operate	<ol style="list-style-type: none"> 1. Check for red light on sensor 2. Check all connections 3. Check for power, to power supply 4. Test power supply for 12V DC output 5. Check fuse in the sensor 6. Replace sensor
Unit opens solenoid valve but no water flows	<ol style="list-style-type: none"> 1. Clean Y-strainer 2. Check for adequate water supply to solenoid valve 3. Disassemble solenoid valve and clean or replace
Unit functions spasmodically	<ol style="list-style-type: none"> 1. Check sensor lens for scratches 2. Ensure settings are correctly set 3. Test operation of sensor 4. Check for interference through 240V
Water continually flows	<ol style="list-style-type: none"> 1. Disassemble solenoid, check for obstructions, clean 2. Power off sensor & check if solenoid closes. If it does, replace sensor. If it doesn't, replace solenoid valve
Low volume of water from outlet	<ol style="list-style-type: none"> 1. Clean Y-strainer in ball valve 2. Check water supply to solenoid valve
Unit does not operate	<ol style="list-style-type: none"> 1. Check for red light on sensor 2. Disassemble solenoid, check for obstructions, clean



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