



SENSOR FLUSHING SYSTEM FOR INDIVIDUAL WALL-HUNG URINALS

SYSTEM CONTROLLER:

Complies to AS 3112

This incorporates the sensing of users as well as initiating and timing of flush cycles. User sensing is by means of an internally generated microwave field is affected by motion within the field. This field passes through most ceiling materials unaffected and can therefore be mounted in the ceiling directly above each “Wall-Hung” urinal.

From within a 3 metre high ceiling the sensor will sense the area the size of an “A Four” page.

POWER SUPPLY:

The power supply converts mains voltage to 24 volt AC, 750mA - 1A output to drive the Controller.

Specification:

Double insulated AC plug pack.

Input 240v AC 50 Hz.

Output 24v AC 750mA - 1A.

Cord length - Approx 1.8m.

Size 8cm x 5.5cm x 6cm

Plugs supplied 2.5mm DC type.

Energy authority approval No. W/2354.

Timing and control of flush cycles.

- **Direct Mains flushing:** The system controller sends a signal to the Solenoid Valve approximately sixty seconds after detection of the user. The signal opens the Solenoid Valve for a period of time (adjustable on the Control Module) to flush the urinal. An adjustable lockout period (adjustable on the Control Module) then applies. Any movement detected during this period is received but not acted upon. During the entire lockout period no additional flushes will occur, however if, and only if, a user has been sensed a flush will be activated at the end of the lockout period or the cycle will start again when the next user is sensed. If no user is sensed for a period of six hours a flush will occur automatically.

- **Specification:**

Electronic Microprocessor

Microprocessor monitored sensing

Input 240v AC; Output 24v AC - 750A - 1A

Size – 100mm x 210mm x 45mm

Microwave Specifications:

Frequency: 2.4 GHz (plus or minus 20Mhz)
1M.

Field Density: 0.1uW/cm² @

SOLENOID VALVE:

Automatic and Direct Mains flushing:

A 10mm normally closed Solenoid Valve is installed in the water supply line. During signal application the Solenoid Valve opens allowing the flow of water. All Solenoid Valves are “Water Marked”.

1 x Solenoid Valve will flush 1 Wall Hung Urinal

BERKERT SOLENOID VALVE:

(NO WATER HAMMER) standard specifications: (6213 FROM BURKERT) Water Mark

Specification:

Voltage; 24v AC 1A

Polyamide coil

Valve body brass

Water Hammer free

Dimensions “typ” 10mm (3/8 half inch) 9cm (h) x 5cm (w) x 6cm (d)

Minimum cycles expectancy 300,000 – 500,000

WaterMark LICENCE NUMBER 60042

WaterMark level 1

Certification Date 11 February 2009

Expiry Date 10 February 2019

AGA Certification Ref No 7444

RECYCLED WATER:

When using recycled water from your local Council or recycled water from air conditioning towers please ask for the following valve to be supplied

Solenoid Valve 2/2 NC, Servo Diaphragm

6213-EV-A10,0FFVAGM84-5-024/50-08 * NA38+PW01

BACKFLOW PREVENTION VALVE:

Required for Direct Mains flushing “Urinal” units to prevent the contamination of potable water supply. We use an Airgap Valve for back flow prevention device as specified by Standards Australia for Urinal systems: SAA MP52 1993 6:20.

It is recommended that a 40mm sparge pipe for a minimum of 300mm from the Air Gap – then reduce to 19mm or 13mm.

CRITICAL SPECIFICATIONS:

FlushSaver Urinal – Model: -

FS-MW-UR-SDH

The FlushSaver Urinal Unit is microprocessor based and incorporates an internally generated microwave field (allowing concealed installation) for sensing of users. Features of this unit include: - External selection for flush duration and lockout adjustment. 200Kpa-500Kpa operating pressure range, quiet water hammer free operation. Controls one Solenoid Valve (= to one cistern) “FlushSaver Smart Toilet Systems” are available from Water Conservation Services 02 9971 1014

SDH is for Single Direction Horn

Unions (Not Supplied) - 40mm Flush pipe reduced to required flush-pipe size for the urinal (not supplied) - Isolation Tap (provided by client / plumber) - Copper Pipe (provided by plumber) - Water Inlet - 240Vac Power (required)

FlushSaver Control Module (Supplied) – Burkert 10mm Stainless Steel Solenoid Valve (supplied) - Air Gap (Supplied) Directional Horn (Supplied) 24V Power Pack (Supplied) – wiring (Supplied)