

# URINAL CONTROL SYSTEMS

## HydroMate 3000

### Installation & Setup

### Instructions

**Please check your box has the following contents**



1 x Hydromate control standard surface mount box.



1 x 15mm 230v Solenoid Valve.

#### **You will require the following:**

1mm twin & earth flex  
Cable Clips, Trunking or Conduit  
20mm Cable glands, wall or ceiling  
fixing Screws/plugs.

#### **Recommended:**

15mm isolation valve "AQRIV" (To comply with water regulations)  
Supply from fused spur using 3 amp fuse (BS1361)



Thank you for purchasing Aqualogic's Hydromate. Following these guidelines will help you to get the most from your product.

## Hydromate 3000 Features Explained

**Flush Frequency.** Set at 10 mins, the urinal will flush 10 minutes after detecting the first user. Set at 40 mins, the urinal will flush 40 mins after detecting first user. This can be altered at any time after set up.

**Hygiene Flush.** During periods of non occupancy the Hydromate will instigate a hygiene flush every 12 hours.

**Reset.** A reset button is located within the Hydromate to aid with maintenance and programming. Memory will be cleared and ready for reprogramming.

**Lighting Control.** Upon detection the washroom lighting will remain on for a set time

## Hydromate Installation

### **Tips before commencing:**

The standard solenoid valve is suitable for installations with a 15mm supply and operating pressures between 0.35 bar and 10 bar.

The detector in the Hydromate should be placed in a position as close to the urinal as possible, unless the PIR is to be used to operate lighting, then place at user entry.

Remote PIR units are available on request

### **Hint:**

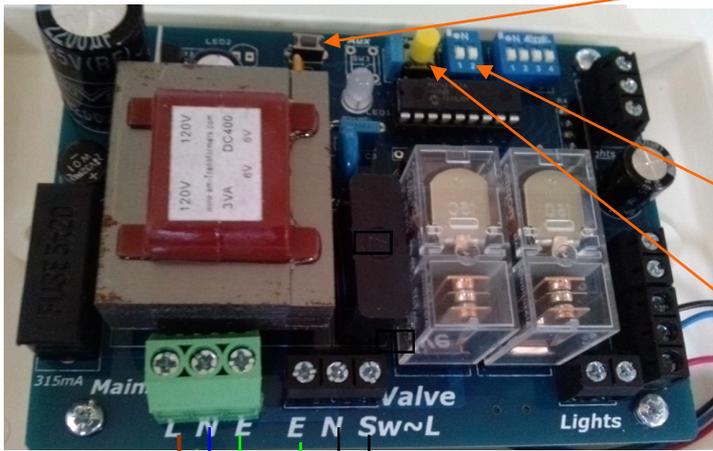
*Best cabling entry points into unit is via rear of unit, or top LHS and RHS of unit (if surface mounting cables).*

Before commencing, if possible fill and flush the cistern, then isolate the water supply. This will help when it comes to setup.

1. Locate a section of the cistern supply pipe work that will accept the solenoid valve.
2. Decide on a location to site the Hydromate control box. Ideally this should be in a position that ensures occupancy detection for the urinals only. The effective sensing angle is up to 30° and the range up to 5 metres. The distance between control box and solenoid valve can be up to 30 metres.
3. Locate the stopcock/service valve for the water supply to the cistern and isolate.
4. Install the solenoid valve (observing the correct direction of flow marked on the valve body).
5. Make cable entry holes in back box and fit suitable cable glands if required.
6. Mount the control back box in the desired position.
7. Prepare the 3 core flex between the valve and control box, leaving surplus at each end for connection.
8. Disassemble the solenoid valve plug and using the 3 core flex and make connection between the valve plug and the terminal block marked 'valve' as shown in diagram 1. Note: The unit will work in either polarity (see suggested wiring Dia 2)
9. Before connecting the 230v supply cable ensure a **safe isolation procedure** has been followed\*. **NB:** (\*The electrical supply connections for this unit should only be carried out by a **competent and qualified electrician**)
10. Reinststate water supply and test for leaks.

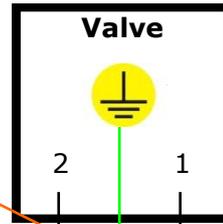
# Hydromate 3000 – identification

## Hydromate 3000 Control Panel Dia 1



Reset

## Solenoid Valve Connections Dia 2



## Dia 3 Flush Frequency



Switch		
1	2	
Off	Off	10 mins
On	Off	20 mins
Off	On	30 mins
On	On	40 mins

Fill Time

230v supply

Table 1

Water Regulations Compliance IRN R075						
No. of Bowls or 700mm places	1	2	3	4	5	6 or more
Flush Delay time (mins)	30	40	30	30	30	20

- Using the Blue DIL Switch, select Flush Frequency, (See above Diagram 3). **For cistern fed urinals to comply with IRN R075 refer to Table 1.**
- Activate the 230v supply and press the reset button. The LED will illuminate red. The Hydromate will enter setup mode and will click within 20/30 seconds. In this state the unit is ready to set fill time.
- If no click is heard during the 20 second period, re-check connections between valve and unit and press the reset button
- Before setting the fill time the cistern must be empty. **NB:** If the cistern is not completely empty at this stage, you will need to carry out steps 5 and 6 twice.
- Press the Re-set button (important before programming)**
- Red LED will illuminate. Press the Fill Time button once. The solenoid valve will open and allow water to flow into the cistern. When the cistern begins flushing, press the Fill Time button again to close the valve. Your Hydromate is now set and will be armed in 50 seconds.
- If you wish to control the local lighting connect switch wire 'line' feed into lighting connectors and set to desired 'lights-on time' (The Hydromate will now replace the light switch.)
- If you have a photocell unit or remote PIR unit connect these as shown in Diagram 4.
- Carefully refit the fascia to the housing and secure with supplied screws.
- Take care when fitting fascia that internal buttons are not depressed causing reprogramming.

# Hydromate 3000 - Lighting Controls

## Hydromate Control Panel Sections Dia 4

Reset Button



Fill Button

Lights on  
time delay

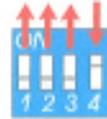


Illustration shown:  
1,2,3 on (up) = 15  
minutes

**All Switches off =  
1min**

Sw1 on adds 2 mins  
Sw2 on adds 4 mins  
Sw3 on adds 8 mins  
Sw4 on adds 16 mins



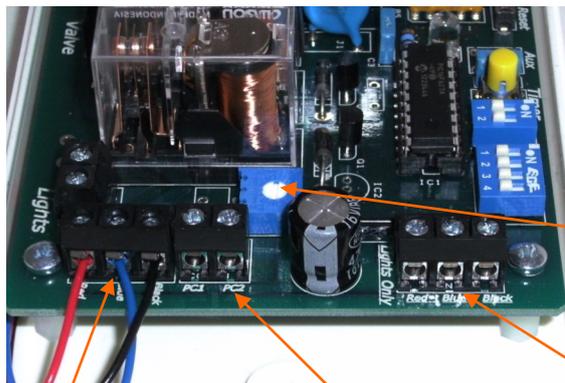
230v Supply, L,N,E

Valve  
Connection E,N,L

Lighting Sw/wire connection—  
in/out

## PhotoCell (Optional)

For areas with natural daylight.  
If using the Hydromate to power  
local lighting & you have natural  
ambient light, the PhotoCell can  
detect when the area has enough  
natural light thus overriding PIR



Rotary screw for lux  
setting - preset at  
110/120 lux.  
(Rotate clockwise for  
darker activation)

## P.I.R connections

**NB:**

3 wire Remote PIR can also  
be connected here if  
required

Connection point for  
Photocell To order  
quote 'AQUHMPC'

PIR Connection Block:  
**to power lighting  
only.** Connect your  
remote PIR to this

## Reprogramming & Care

1. Should you require to increase or decrease flush frequencies, simply alter the 2-dil switch positions. No further programming is required.
2. To alter the fill time you must reset the system — stage 5.
3. Wiping the fascia of the Hydromate with non-abrasive cleaners will help to keep the Hydromate in good condition.
4. In case of a power failure, the unit's memory will retain programmed settings.
5. Unexpected interruptions or pressure differentials with your water supply may cause fill times to drift over time.

**For further information or Technical assistance contact us on: Tel 0844 324 0844  
or Email: [info@aqualogic-wc.com](mailto:info@aqualogic-wc.com)**