

FOR MOTOR MOUNTED VSDs

The MATElec Australia Rain/Mains Pump Controller for Motor Mounted VSDs is designed to provide a continuous supply of water for a variety of uses, whilst prioritising and maximising the use of rain water. The system comprises of a controller, a pulse latching solenoid valve and a float switch. The controller not only monitors the level of stored rain water and switches the valve accordingly, but provides power supply and an enable signal to motor mounted variable speed drives in a pressure pumping system.



Pulse Latching Solenoid Valve

HARDWARE FEATURES

Enclosure:

- IP56 rated, powder coated mild steel enclosure with inner door and removable gland plate

Protection:

- Pad-lockable mains power isolator switch
- Circuit breaker protected low voltage control and input circuitry
- Circuit breakers for individual pump isolation
- Din rail mounted terminal connections

Control & interface:

- Rain/mains keypad interface:
 - Indicator lights for mains and tank water use, system fault
 - System test/reset button for checking pump and valve function, resetting faults
- Rain/mains PCB control module

Inputs:

- Single phase (230Vac) or three phase (400Vac) power supply
- Digital 12Vdc input for float switch
- 1 or 2x Digital 12Vdc inputs for VSD faults

Outputs:

- 1 or 2x volt free outputs for VSD enable signals
- 12Vdc output for pulse latching solenoid valve

Included with panel:

- 25mm female/female 12Vdc pulse latching solenoid valve

FUNCTION FEATURES

- **Rain water use** - If rain water becomes available, the controller pulse closes the mains water valve and provides an enable signal to the VSDs.
- **Mains water use** - In the event of rain water depletion, VSD fault or power failure, the controller shuts off the enable signal to the VSDs and pulses the valve open for mains water use.

OPTIONAL MODIFICATIONS

- 316 stainless steel enclosure
- Input for filter blocked signal
- Power supply to filter systems
- Tank level meter
- Tank fill control
- ME-Link module for SMS messaging
- Other valve sizes available

RAIN/MAINS PUMP CONTROLLERS - FOR MOTOR MOUNTED VSDS

Code	No of Pumps	Phase / Voltage	Enclosure Size
FPC-12741	Single	1 Phase / 230Vac	400x300x200mm
FPC-12742	Dual	1 Phase / 230Vac	400x300x200mm
FPC-12743	Single	3 Phase / 400Vac	400x300x200mm
FPC-12744	Dual	3 Phase / 400Vac	400x300x200mm