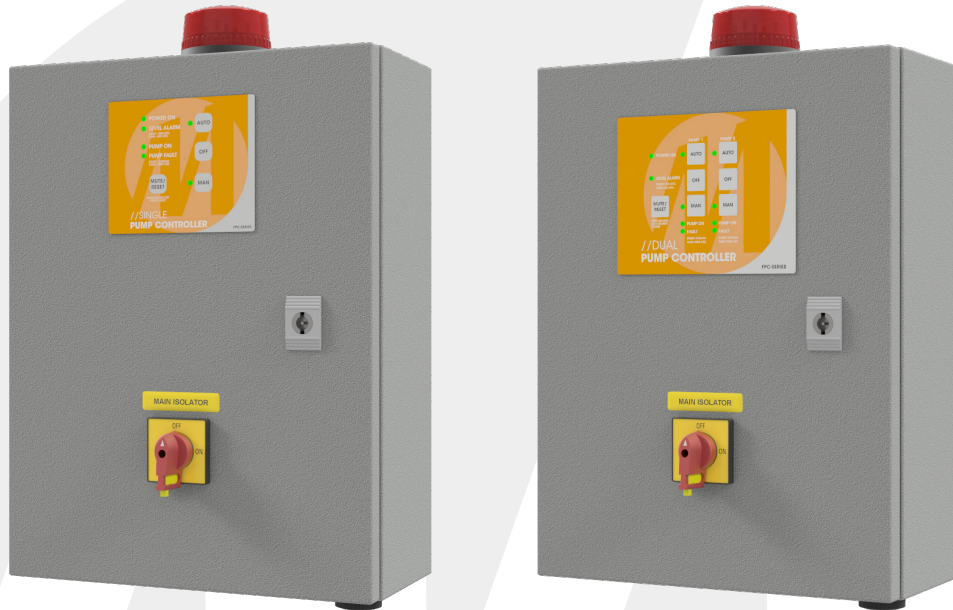


## SINGLE DOOR

MATElec Australia's highly popular Standard Range of pump controllers are designed to control one or two pumps, featuring a keypad interface and control module with dipswitches for configuring the controller to suit various level and pressure control applications. Housed in robust powder coated metal enclosures, the controllers utilise contactors and thermal overload protection for the pumps and up to 4 digital inputs for control. The single door version is suited to applications where the controller will be mounted indoors and does not require the controls to be mounted on an inner door.



### HARDWARE FEATURES

#### Enclosure:

- IP54 rated, powder coated mild steel enclosure with single door and removable gland plate (suitable for mounting indoors only)

#### Protection:

- Pad-lockable mains power isolator switch
- Circuit breaker protected low voltage control and input circuitry
- Individual pump isolation
- Contactor and thermal overload protection of pump motors
- Din rail mounted terminal connections

#### Control & interface:

- Single or dual pump keypad interface:
  - Indicator lights for power on, level alarm, pump run and fault
  - Push buttons for alarm mute/reset, pump auto/off/manual control
- PCB control module with dipswitches for adjusting configuration
- Visual (strobe) and mutable audible (buzzer) alarms

#### Inputs:

- Single phase (230Vac) or three phase (400Vac) power supply
- 4x digital 12Vdc inputs for float or pressure switches, optional low flow switch
- Standard terminal setup: Pump stop, pump start and high level float switches

#### Outputs:

- 1 or 2x pump supply outputs
- Coded data output for connection to Remote Status Indicators, BMS Module or SMS Alarm/Status Communicator

### COMMON APPLICATIONS

- Submersible sewage
- Submersible stormwater
- Pressure boosting

## SINGLE DOOR

### FUNCTION FEATURES

- **High level alarm delay** - Avoids nuisance alarms caused by water level oscillation
- **Smart chirp mode alarms** - Alarms automatically silence after 5 minutes if not muted, then chirp every 5 minutes
- **Manual control** - Manual pump mode with optional 5 minute timeout to revert back to auto mode
- **Duty sharing and alternation** - Duty pump alternates on pump start and after 30 minutes of continuous running in alternation mode, or after 6 hours of accumulated running in circulation mode (dual pump versions)
- **Pump staging and destaging** - Second pump is staged into operation on high level float or lag pump pressure switch closing and destaged when no longer required (dual pump versions)
- **Staggered pump start** - Prevents excessive current draw and reduces water surge (dual pump versions)
- **Level control mode** - Pump out operation controlled by pump stop, pump start and high level float switches
- **Maintain minimum level** - Ensures minimum tank level is maintained if pump does not run for 4 hours, and pump stop input is closed
- **Pressure control mode** - Pressure boost operation controlled by lead pump, lag pump (dual pump versions) and low pressure switches

### FAULT PROTECTION

- **Pump overload protection** - Shuts down pumps on overload, with automatic duty alternation (dual pump versions)
- **Pump anti-seize protection** - Runs pumps periodically during low use to prevent seizing
- **High level alarm** - Can be configured with 15 minute delay and auto reset for stormwater applications, or 5 minute delay and manual alarm reset only for sewage applications
- **Low level alarm** - Locks out pumps until manually reset, to prevent dry running (if using float switch in input 1)
- **Low flow/prime loss protection** - Activates if a pump is running but there is no flow for 2 minutes (if using flow switch in input 1 instead of low level float switch)
- **Low pressure alarm** - Shuts down pumps if low pressure input closes for 60 seconds

### STANDARD PUMP CONTROLLERS - SINGLE DOOR

Code	No of Pumps	Phase / Voltage	Overload Rating Options	Enclosure Size
FPC-15006	1	3 Phase / 400Vac	-AA to -E	400x300x150mm
FPC-30010	2	1 Phase / 230Vac	-AA to -E	400x300x150mm
FPC-30030	2	3 Phase / 400Vac	-AA to -E	400x300x150mm

See the Standard - Electronic Overload range for single phase, single pump controllers with single door

### OVERLOAD RATING GUIDE

Code Suffix	Overload Rating
-AA	1.6 - 2.5 Amp
-A	2.5 - 4 Amp
-B	4 - 6 Amp
-BB	5.5 - 8 Amp
-C	7 - 10 Amp
-D	9 - 13 Amp
-E	12 - 18 Amp

Additional overload ratings available on request

### OPTIONAL MODIFICATIONS

- Pump maximum run time protection
- See the Standard - With Inner Door Range for additional modifications