



FPC-10000

SPECIFICATION SHEET

HydroLITE Pump Controller

HARDWARE FEATURES

Enclosure:

- ABS enclosure, IP54 rated, suitable for undercover installation out of direct sunlight

Protection:

- Padlockable mains power isolator switch
- Low voltage control and input circuitry
- Electronic short and overload protection with alarms

Control & interface:

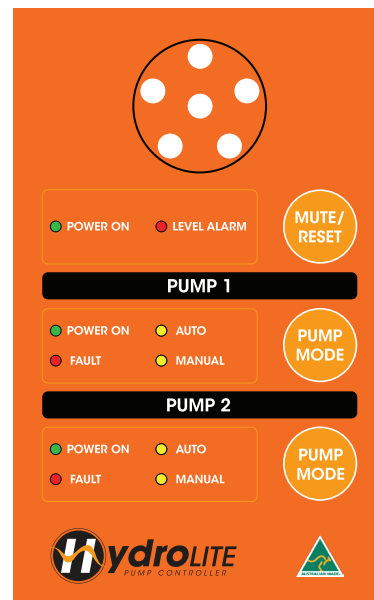
- HydroLITE capacitive touch keypad interface:
 - Indicator lights for pump status and level alarm
 - Buttons for alarm mute/reset and pump mode selection
- HydroLITE PCB control module with dipswitches for adjusting configuration
- Visual (strobe) and audible (buzzer) alarms
- Pump current sensing providing adjustable overload & other protections

Inputs:

- Single phase (230Vac) power supply
- 3 x digital inputs for float or pressure switches
- Standard terminal setup: Stop Level, Start Level and High Level
- 2 x inputs for pump thermal switch

Outputs:

- 2 x pump supply outputs
- BMS volt free output for common fault



COMMON APPLICATIONS

- Sewage pump out
- Stormwater pump out
- Water transfer
- Pressure boosting
- Hot water recirculation

Designed with simplified functionality and control at its core, the HydroLITE has been specifically tailored for Pump and Motor control in Residential or Light Commercial applications.

The HydroLITE features control for up to two single phase pumps or motors up to 16A each, featuring the very latest in onboard control and protection. The system will constantly monitor the state of an attached pump, alternate between pumps in a dual pump system, and provide warning and indication of any anomalies with hardware or system.

FUNCTIONS

- **Level control mode** – Level empty/fill operation controlled by up to 3 float switches: Stop Level, Start Level and High Level
- **Pressure control mode** – Pressure boost operation controlled by up to 3 pressure switches: Stop Pressure, Start Pressure and Low Pressure
- **Duty sharing and alternation** – Duty pump alternates on pump start and after 30 minutes of continuous running in alternation mode, or 6 hours of accumulated running in recirculation mode
- **Staggered pump start** – Prevents excessive current draw and reduces water surge
- **Manual pump control** – Manual pump mode with optional 5 minute timeout to revert to auto mode
- **Static duty mode** – No duty alternation, for applications using smaller duty pump that always starts first
- **Smart chirp mode alarms** – Audible alarm automatically silences after 5 minutes if not muted, then chirps every 5 minutes

FAULT PROTECTION

- **High level alarm** – Alarms after 15 minute delay with auto reset in stormwater mode, or after 1 minute with manual reset only in sewage mode
- **Low pressure protection** – Alarms and shuts down pumps if low pressure input is closed for 60 seconds
- **Pump anti-seize protection** – Runs pumps periodically during low use to prevent seizing
- **Pump current sensing** – Provides adjustable pump overload, undercurrent and zero current protection