

FPC Series

HydroSTART Pump Controllers



Functions

- Level control mode – Level empty operation controlled by up to 5 float switches: Low level, duty stop, duty start, standby start and high level.
- Pressure control mode – Pressure boost operation controlled by up to 3 pressure switches: Duty start, standby start 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.
- System enable input – Enables and disables the system in 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.



Current Sensing Ratings

Code Suffix	Amp Rating
Standard	0.1 – 16 Amp
-E	12 – 18 Amp

For FLCs above 16 Amps, external thermal overloads are required, see overload rating table below.

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 level protection – Alarms and shuts down pumps on low level, manual reset only.
- Low pressure protection – Alarms and shut down pumps if low pressure input is closed for 60 seconds.
- Prime loss protection – Alarms and shuts down running pumps if there is no flow for 30 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.

Fault Protection

Additional options are added to the end of the code after the overload rating, eg: FPC-82143-LR/BMS. Most options can only be added to the inner door version.

- /BMS – With BMS module providing volt free outputs for power on, low and high level, individual pump run and fault and common fault
- /SMS – With ME-Link module for SMS alarm/status messaging
- /RMC – With rain/mains changeover control module and 12Vdc pulse latching solenoid valve
- /GEN – With generator input socket and manual changeover switch
- /ATS – With automatic generator changeover switch
- /RCBO – With individual pump RCBO protection
- /CON – With conductivity module and up to 5 probe inputs
- /INT – With intrinsically safe input barrier relays
- /TF – With tank fill control mode enabled
- /MR – With max run protection enabled
- /PL – With pump limit function enabled
- /SRCAP – With start and run capacitors
- /RCAP – With run capacitors
- /BBHLS – With battery backup high level alarm
- /HWC – Configured for hot water circulation
- /TC – With time clock for time-of-day operation
- /SS – With 316 stainless steel enclosure

HydroSTART Range – with inner door IP56

Model	No of Pumps	Phase / Voltage	Soft Starter Rating Options	Enclosure Size
FPC-82141	1	1 Phase / 230Vac	N/A	400x300x150mm +
FPC-82143	1	3 Phase / 400Vac	S4.0 to -S90	400x300x150mm +
FPC-82241	2	1 Phase / 230Vac	N/A	400x300x150mm +
FPC-82243	2	3 Phase / 400Vac	S4.0 to -S90	400x400x250mm +

Note: Enclosure sizes may increase for soft starters and additional options

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