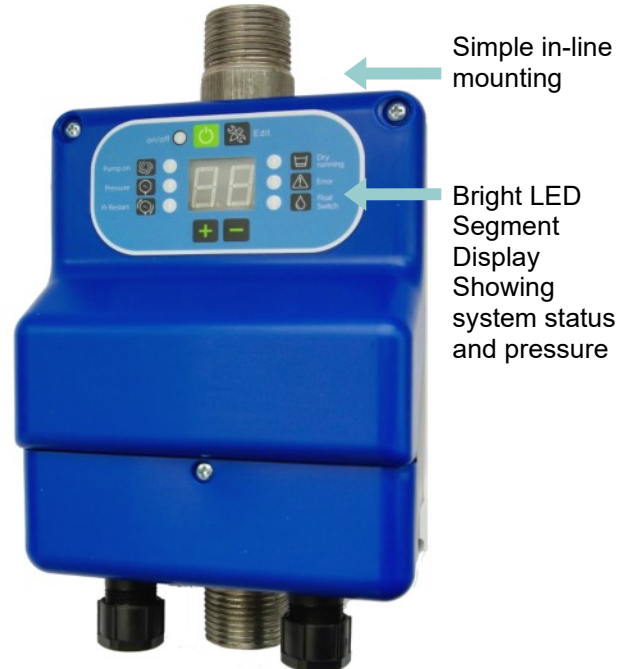


PresSystem - Advanced Electronic Pressure Controller

Fixed Speed Pressure Control With Adjustable Pressure

- **No Valves or Flow Restriction**
- **Simple In-Line Mounting**
- **User Programmable**
- **Start/Stop Pressure Control**
- **Fixed Speed, Variable Pressure**
- **Dual Voltage Capability**
- **Dry Run Protection (Pressure Control and/or Float Switch)**



How Does It Work?

Mac3 PresSystem is a single phase fixed speed variable pressure controller.

Variable pressure is achieved by allowing the user to set both the start and stop pressure of the pump. This also avoids the need to run the pump to the end of it's pressure curve producing substantial efficiency gains and reduced run time.

Dry run protection is achieved by pressure monitoring, and additionally a float switch input allows pre-emptive dry run protection to be implemented.

PresSystem is intended for use in clean water with no solids between pH 5 – 9.

PresSystem is designed to operate in either **Automatic** or **Pressure Switch** mode.

In **Automatic** mode, **PresSystem** will determine automatic pressure settings for the pump by running for 40 seconds upon first start up.



In **Pressure Switch** mode, the start pressure, stop pressure and dry run pressure can be adjusted as desired to suit the needs of a particular installation.

The innovative use of a recessed pressure sensor eliminates losses associated with more basic pressure controllers.

The ability to operate with 2 pressure points instead of just the restart pressure means a pump can be run below the peak of it's efficiency curve, and with a suitable sized pressure vessel will achieve efficiencies much nearer to that of an inverter than of a typical fixed speed system. Pump motor and bearing life are improved, reducing maintenance intervals and cost of ownership, and at much lower initial cost than any variable speed solution.

PresSystem requires a pressure vessel and a pump capable of at least 1 bar pressure (at least 1.5bar recommended). In addition a non-return valve must be fitted before the PresSystem.

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Technical Specifications	
Physical	
Width, Length, Height	170mm, 230mm, 82mm
Weight	0.6 Kg
Material - Body	Polypropylene
Material - Pipe	Stainless 304
Mounting	In-Line, Vertical or Horizontal
Inlet	1" BSPT Male
Outlet Fitting	1" BSPT Male
Operational Pressure	1.5 - 8 Bar
Max System Pressure	20 Bar
Maximum Flow	120 L/min
Electrical	
Power Supply	230 Vac / 117 Vac
Pump Power Supply	230 Vac / 117 Vac
Pump Current	8 Amp
Maximum Pump Power	1.5 kw (2 h.p) at 230Vac 0.75 kw (1 h.p) at 117Vac
Display	LED Multi-Segment Display
Keypad	Membrane
Pressure Control	Variable
Pressure adjustment	Digital via control panel
Fault detection	Yes
Pump Protection	Dry Running (Pressure Control or Float Switch)
Pressure Sensing	Integrated Pressure Sensor (Replaceable Unit)
Level Control	
Level Sensing	Float Switch
Environmental Limits	
Liquid Conditions	Clean Water, No Solids, pH 5 - 9
Water Temperature	1 - 40°C
Operating Temperature	5 - 50°C
Ingress Protection Rating	IP50

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