



## Entek PG500 Controller for Pumps



ENTEK PG500 series pump controller controls, protects and automates single pump applications.

- Complete solution for single pumps
- Microprocessor-based controller protects against dry running of pumps without the need for level switches or level floaters
- Protection for short circuit, over-current and phase-loss
- Waterproof on-off switch
- PG500 controller can also be used to control the tank water level with a floater switch input, or the tank pressure with a pressure switch
- Automates applications for a more reliable and economical solution
- Delay feature prevents frequent start-stops
- LED indicators for Alarm and In Operation signal
- LED indicators for High and Low Levels
- Manual override of automatic functions
- NEMA12 Enclosure

Single-phase and three-phase systems: PG500 is used for the control of up to 2HP single-phase or up to 6HP three phase direct online connection pumps. Single-phase motor capacitor can be placed in the controller box.

Standard configuration allows the use of pressure sensor and level float switch inputs.



# PG500 Controller for Pumps

Standard controller can be used for water level control with a float switch. It is also possible to connect a pressure switch to the controller, so that the pump can be used to automatically control the line pressure.

All measurement and control functions are processed by a microprocessor. In case of a dry running condition, the controller stops the pump. It can restart the pump after a delay set by the user. In case of an over current, the controller stops the pump and waits at that state for a manual restart for safety reasons.



## Main functions:

- Turns the pump on or off
- Protects the motor against over current
- Protects against phase loss
- Short circuit protection
- Pump protected against dry running
- Automated operation with added external pressure switch or level float switch
- 2 Contact outputs for external monitoring of the controller

## Operating Modes and Indicators:

- A 3-way switch located on the electronic card selects between three operating modes: Automatic, Manual On or Off.
- LED signal lights indicate: Power on, Operating, Failure, Protection Mode, Pressure High/Low

## Technical Specifications:

Dimensions.....	11"x8"x5"
Weight .....	4.8 lbs.
Digital Inputs.....	Dry contact inputs for pressure switch or level sensors.
Digital Outputs.....	2 Relay Outputs, one for alarm condition, one for pump is working. During normal operation relays are NO.
Operating Voltage .....	230 V, 460V, 480V 3 phase – 110V, 230V single phase.
General Protection Class .....	NEMA 12 - IP 54
Cable Entry.....	AC Power, Signal Input, Pump Output.
Operating Temperature .....	-40°F to 185°F