

# Model CP110 Economy Simplex Control Panel

## Description

The Economy Simplex 115V control panel contains all industrial quality components that allows for single pump operation using float switches. Many standard and some optional features are available that will allow the selection of the most cost effective panel for a particular application.

## Typical Uses

Typical uses of these panels are:

- Pressure Sewer Systems
- Sewage Lift Stations
- Pressure Drainfields
- Gravity Drainfields
- Irrigation
- Spray Fields

They are especially suited for all on site pumping requirements that require up to 115 volt, 1 HP, 16 AMP maximum full load current.

## Operation

A single mechanical float is utilized instead of the on/off floats. The pumping levels are determined by the tethered length of the pump float. If the water level rises to the upper float switch, then an alarm will sound and a light will illuminate. The alarm will automatically turn off and reset when the level drops back below the alarm level.

## Standard Features

- U.L. and Canadian U.L. 508A listed if requested.
- Main circuit breaker disconnect disconnects all power to panel in one operation.
- Main pump fuse offers more protection to pump than just the pump internal thermal protector does. Fuse will blow before main breaker trips allowing alarm circuit to continue to operate.
- Control and alarm circuit fuse separates pump circuit from alarm circuit thereby allowing alarm to function even if pump circuit malfunctions. This fuse will also blow before main breaker trips allowing pump to continue to operate.
- Normal-Silence switch allows for silencing of the alarm.

## Optional Features

- CNT-counts the number of times that the pump starts.
- RL-pump run light indicates that the pump is running.
- CT-clock timer allows pump to run only during the time set on the clock. The minimum settings are at 15 minute intervals. The clock has a built in Manual-Off-Auto switch.

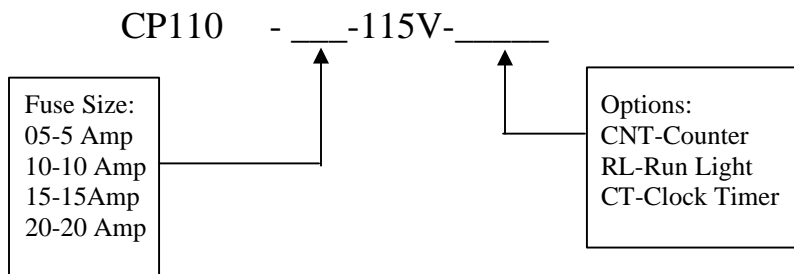
## Technical Data

Agency Approval	U.L. and Canadian U.L.
Operation Voltage	120 VAC
Maximum Pump Current	16 Amps
Main Breaker	20 Amps
Control & Alarm Fuse	2 Amps
Pump Fuse	Up to 20 Amps (see chart)
Enclosure Material	Painted Steel
Enclosure Rating	Nema 3R
Enclosure Size	6"x8"x4"

## Pump Fuse Selection Chart

<u>Pump Motor Full Load Current</u>	<u>Typical Time Delay Fuse Size Required</u>	<u>CRT Part No.</u>
1-4 Amps	5 Amps	AE845-0146
4-8 Amps	10 Amps	AE845-4184
8-12 Amps	15 Amps	AE845-4187
12-16 Amps	20 Amps	AE845-4188

## How To Order



# Model CP120 Standard Simplex Control Panel

## Description

The Standard Simplex 115V control panel contains all industrial quality components that allows for single pump operation using float switches. Many standard and optional features are available that will allow the selection of the most cost effective panel for a particular application.

## Typical Uses

Typical uses of these panels are:

- Pressure Sewer Systems
- Sewage Lift Stations
- Pressure Drainfields
- Gravity Drainfields
- Irrigation
- Spray Fields

They are especially suited for all on site pumping requirements that require up to 115 volt, 1 HP, 16 AMP maximum full load current.

## Operation

A single mechanical float is utilized instead of the on/off floats. The pumping levels are determined by the tethered length of the pump float. If the water level rises to the upper float switch, then an alarm will sound and a light will illuminate. The alarm will automatically turn off and reset when the level drops back below the alarm level.

## Standard Features

- U.L. and Canadian U.L. 508A listed if requested.
- Main circuit breaker disconnect disconnects all power to panel in one operation.
- Main pump fuse offers more protection to pump than just the pump internal thermal protector does. Fuse will blow before main breaker trips allowing alarm circuit to continue to operate.
- Control and alarm circuit fuse separates pump circuit from alarm circuit thereby allowing alarm to function even if pump circuit malfunctions. This fuse will also blow before main breaker trips allowing pump to continue to operate.
- Hand-Off-Auto switch allows for easy troubleshooting of control circuit and pump circuit.
- Normal-Silence switch allows for silencing of the alarm.
- Extra terminals wired to accept, if necessary, a remote contact such as from another float switch to stop the pump from pumping. Useful for a redundant stop float switch in dosing tank or high level float switch in a sand filter.

## Optional Features

- PT-programmable timer allows pump to start at certain intervals and to run for a maximum specific period of time. Has an individually adjustable dial with setting from 1 minute to 24 hours.
- CNT-counts the number of times that the pump starts.
- RTM-run time meter indicates the cumulative number of hours that the pump has operated.
- RL-pump run light indicates that the pump is running.
- CT-clock timer operates the same as the programmable timer except the minimum settings are 15 minutes.

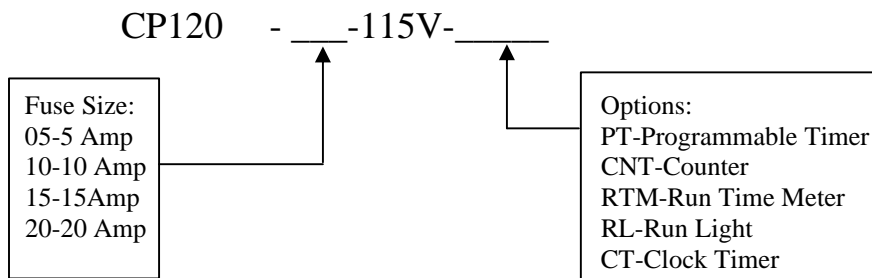
## Technical Data

Agency Approval	U.L. and Canadian U.L.
Operation Voltage	120 VAC
Maximum Pump Current	16 Amps
Maximum Lock Rotor Current	96 Amps
Main Breaker	20 Amps
Control & Alarm Fuse	2 Amps
Pump Fuse	Up to 20 Amps (see chart)
Enclosure Material	Fiberglass
Enclosure Rating	Nema 4X
Enclosure Size	10"x8"x5"

## Pump Fuse Selection Chart

<u>Pump Motor Full Load Current</u>	<u>Typical Time Delay Fuse Size Required</u>	<u>CRT Part No.</u>
1-4 Amps	5 Amps	AE845-0146
4-8 Amps	10 Amps	AE845-4184
8-12 Amps	15 Amps	AE845-4187
12-16 Amps	20 Amps	AE845-4188

## How To Order



# Model CP115 Economy Simplex Control Panel

## Description

The Economy Simplex 115V control panel contains all industrial quality components that allows for single pump operation using float switches. Many standard and some optional features are available that will allow the selection of the most cost effective panel for a particular application.

## Typical Uses

Typical uses of these panels are:

- Pressure Sewer Systems
- Sewage Lift Stations
- Pressure Drainfields
- Gravity Drainfields
- Irrigation
- Spray Fields

They are especially suited for all on site pumping requirements that require up to 115 volt, 1 HP, 16 AMP maximum full load current.

## Operation

A single mechanical float is utilized instead of the on/off floats. The pumping levels are determined by the tethered length of the pump float. If the water level rises to the upper float switch, then an alarm will sound and a light will illuminate. The alarm will automatically turn off and reset when the level drops back below the alarm level.

## Standard Features

- U.L. and Canadian U.L. 508A listed if requested.
- Main circuit breaker disconnect disconnects all power to panel in one operation.
- Main pump fuse offers more protection to pump than just the pump internal thermal protector does. Fuse will blow before main breaker trips allowing alarm circuit to continue to operate.
- Control and alarm circuit fuse separates pump circuit from alarm circuit thereby allowing alarm to function even if pump circuit malfunctions. This fuse will also blow before main breaker trips allowing pump to continue to operate.
- Normal-Silence switch allows for silencing of the alarm.

## Optional Features

- CNT-counts the number of times that the pump starts.
- RL-pump run light indicates that the pump is running.
- CT-clock timer allows pump to run only during the time set on the clock. The minimum settings are at 15 minute intervals. The clock has a built in Manual-Off-Auto switch.

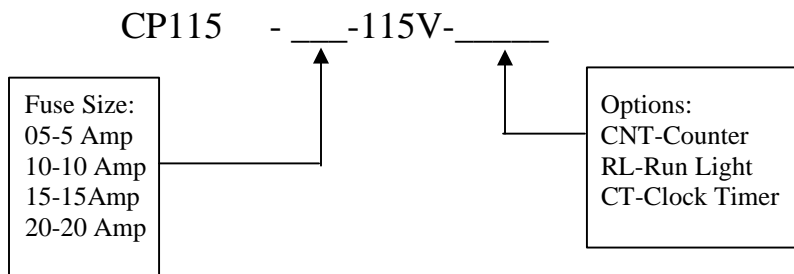
## Technical Data

Agency Approval	U.L. and Canadian U.L.
Operation Voltage	120 VAC
Maximum Pump Current	16 Amps
Main Breaker	20 Amps
Control & Alarm Fuse	2 Amps
Pump Fuse	Up to 20 Amps (see chart)
Enclosure Material	Fiberglass
Enclosure Rating	Nema 4X
Enclosure Size	6"x8"x4"

## Pump Fuse Selection Chart

<u>Pump Motor Full Load Current</u>	<u>Typical Time Delay Fuse Size Required</u>	<u>CRT Part No.</u>
1-4 Amps	5 Amps	AE845-0146
4-8 Amps	10 Amps	AE845-4184
8-12 Amps	15 Amps	AE845-4187
12-16 Amps	20 Amps	AE845-4188

## How To Order



## Model CP100 and CP105 Economy Simplex Control Panel

### Description

The Economy Simplex 115V control panel contains all industrial quality components that allows for single pump operation using float switches.

### Typical Uses

Typical uses of these panels are:

- Pressure Sewer Systems
- Sewage Lift Stations
- Pressure Drainfields
- Gravity Drainfields
- Irrigation
- Spray Fields

They are especially suited for all on site pumping requirements that require up to 115 volt, 1 HP, 16 AMP maximum full load current.

### Operation

A single mechanical float is utilized instead of the on/off floats. The pumping levels are determined by the tethered length of the pump float. If the water level rises to the upper float switch, then an alarm will sound and a light will illuminate. The alarm will automatically turn off and reset when the level drops back below the alarm level. The panel can also be utilized as an alarm panel only. Simply do not use the pump connections. It can be used as a local or a remote alarm panel and can be connected as a self powered unit or unpowered unit.

## Standard Features

- U.L. and Canadian U.L. 508A listed if requested.
- Main circuit breaker disconnect disconnects all power to panel in one operation (CP105 only).
- Nema 4X front cover mounted alarm light.
- Normal-Silence switch allows for silencing of the alarm.

## Technical Data

Agency Approval	U.L. and Canadian U.L.
Operation Voltage	120 VAC
Maximum Pump Current	16 Amps
Main Breaker	20 Amps (CP105 only)
Enclosure Material	Polycarbonate Hinged Door
Enclosure Rating	Nema 4X
Enclosure Size	6"x 6"x 3 1/2"

## How To Order

CP\_\_-115V



100 w/o Main Breaker  
105 w/ Main Breaker

# Model CP1000 Whitewater-Pro Universal Simplex and Duplex Professional Series Control Panels

## Description

The Whitewater-Pro Universal control panel contains all industrial quality components that allows for single pump, or dual pump operation using float switches. Many standard features are available that will allow the selection of the most cost effective panel for a particular application.

## Typical Uses

Typical uses of these panels are:

- Pressure Sewer Systems
- Sewage Lift Stations
- Pressure Drainfields
- Gravity Drainfields
- Irrigation
- Spray Fields

They are especially suited for a wide range of pumping requirements that require simplex or duplex 115V single phase or 240V single and 3 phase pumps in any size from ½ HP to 10 HP and up.

## Operation

Float switches determine when to start and stop the pump(s) and when to alarm at high level. Any pump switch arrangement consisting of 2, 3, or 4 switches may be used. This is especially useful where it is not immediately known which arrangement will be used in any particular application. When the water level rises, a float switch signals the pump to run. If continues to rise to the upper float switch, an alarm will sound and a light will illuminate. The alarm will automatically turn off and reset when the level drops back below the alarm level. Duplex application allows alternation between pumps and starting of 2<sup>nd</sup> pump if 1<sup>st</sup> pump fails.

## Standard Features

- U.L. and Canadian U.L. 508A listed if requested.
- Main circuit breaker disconnect disconnects all power to panel in one operation.
- Main pump fuse offers more protection to pump than just the pump internal thermal protector does. Fuse will blow before main breaker trips allowing alarm circuit to continue to operate.
- Control and alarm circuit fuses separate pump circuit from control and alarm circuits thereby allowing alarm to function even if pump circuit malfunctions. These fuses will also blow before main breaker trips allowing pump to continue to operate.
- Hand-Off-Auto switch allows for easy troubleshooting of control circuit and pump circuit.
- Normal-Silence switch allows for silencing of the alarm.
- Extra terminals wired to accept, if necessary, a remote contact such as from another float switch to stop the pump from pumping. Useful for a redundant stop float switch in dosing tank, high level float switch in a sand filter or as a high pump temperature shutdown input.
- Programmable timer allows pump to start at certain intervals and to run for a maximum specific period of time with settings from 1 minute to 24 hours.
- Counter counts the number of times that each pump starts.
- Counter counts the number of times that a high level alarm has occurred.
- Run time meter indicates the cumulative number of hours that the pump has operated.
- Pump run indicator indicates that the pump is running.
- Clock timer operates the same as the programmable timer except the actual time of day that pumping occurs can be selected.
- Can accept 2, 3, or 4 floats for pump and alarm control. Floats can be teathered wide angle in-pump-circuit, individual standard mercury type or combinations of the two. Instructions clearly show where to connect the various types with simplex and duplex panels.

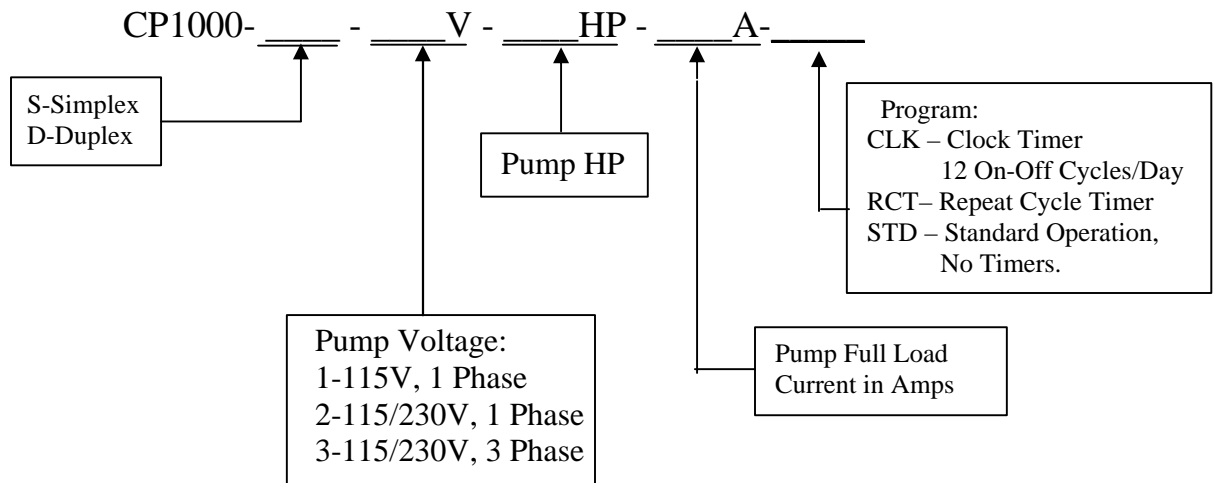
## Technical Data For Standard Panel

Agency Approval	U.L. and Canadian U.L.
Operation Voltage	120 VAC
Maximum Pump Current	16 Amps
Maximum Lock Rotor Current	96 Amps
Main Breaker	20 Amps
Control & Alarm Fuse	5 Amps
Float Switch Fuse	5 Amps
Pump Fuse	Up to 20 Amps (see chart)
Enclosure Material	Fiberglass
Enclosure Rating	Nema 4X

### Pump Fuse Selection Chart

<u>Pump Motor Full Load Current</u>	<u>Typical Time Delay Fuse Size Required</u>	<u>CRT Part No.</u>
1-4 Amps	5 Amps	AE845-0146
4-8 Amps	10 Amps	AE845-4184
8-12 Amps	15 Amps	AE845-4187
12-16 Amps	20 Amps	AE845-4188

### How To Order



**LIMITED WARRANTY  
ELECTRICAL ALARM / CONTROL PANELS**

Delta Environmental Products, Inc. warrants the parts supplied by Delta in each electrical control/alarm panel for a period of one (1) year. All warranty questions shall be resolved through Delta Environmental Products, Inc. The warranty on the electrical control/alarm panel is that the device is free from defects in material and workmanship from the date of installation. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply. Sole obligation under this warranty is as follows: Delta Environmental Products, Inc. shall fulfill this warranty by repairing or exchanging any component part, F.O.B. factory, that in Delta Environmental Products, Inc.'s judgment shows evidence of defects, provided said component part has been paid for and is returned through an authorized dealer, transportation prepaid. The warrantee must also specify the nature of the defect to the manufacturer.

The warranty does not cover electrical control/alarm panel that have been subjected to voltage either above or below normal operating range, flooded by external means, or that have been disassembled by unauthorized persons, improperly installed, subjected to external damage or damaged due to altered or improper wiring or parts not supplied by Delta.

This warranty applies only to the electrical control/alarm panel and does not include any of the house wiring, plumbing, drainage, drip, sprinkling, or other disposal system. Delta Environmental Products, Inc. is not responsible for any delay or damages caused by defective components or material, or for loss incurred because of interruption of service, or for any other special or consequential damages or incidental expenses arising from the manufacture, sale or use of this electrical control/alarm panel components or equipment.

Delta Environmental Products, Inc. reserves the right to revise, change or modify the construction and design of the electrical control/alarm panel for household wastewater or any component part or parts thereof without incurring any obligation to make changes or modifications in previously sold equipment. Delta Environmental Products, Inc. also reserves the right, in making replacements of component parts under this warranty, to furnish a component part which, in its judgment is equivalent to the part replaced.

Under no circumstances will Delta Environmental Products, Inc. be responsible to the warrantee for any other direct or consequential damages, including but not limited to lost profits, lost income, labor charges, delays in production, and/or idle production, which damages are caused by a defect in material and/or workmanship in its parts. Some states do not allow the exclusion of limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty is expressly in lieu of any other express or implied warranty, excluding any warranty of merchantability or fitness and of any other obligation on the part of Delta Environmental Products, Inc.

This warranty gives you specific legal rights, and you may also have other rights, which vary, from state to state.