

Duplexor™ Alternating Pump Controller

Single Phase Duplex 120/240VAC

Model: CPCSDS1 Series



QUICK START GUIDE

CSC00560_Rev02_Duplexor_CPC-SDS1 Series | February 10, 2028 9:07 AM

Safety Guidelines



WARNING

Before proceeding with the installation or operation of this product, read all instructions thoroughly, as well as complying with all federal, state and local codes, regulations, and practices. This product must be installed by qualified personnel familiar with all applicable local electrical and mechanical codes. Refer to the National Electrical Code (NEC) (NFPA 70). Failure to properly install, test, and operate this product can result in personal injury or equipment malfunction.

1. DISCONNECT POWER when installing or servicing the product. Failure to disconnect all power sources could result in serious injury or death.
2. NEVER enter a flooded space without proper Personal Protective Equipment (PPE). Always wear dielectric rubber boots and other applicable protective equipment when water is on the floor and you must service an energized pump, alarm system, or product.
3. DO NOT enter the water if the water level is higher than that of the protection your PPE offers or if your PPE is not watertight.
4. DO NOT use or install this product with or near flammable liquids.
5. DO NOT use or install this product in locations classified as hazardous or in explosive atmospheres as defined by any applicable electrical safety code.

Included with Product

- **Base Model: CPC-SDS1:** (1) Control Panel (amperage depends on model). Some units may come with level probe sensor or float switches. Models may include options – refer to ratings label model number.

Pump Ratings

Pump Power Receptacle

120VA, 15A, 60 Hz, NEMA 5-15R

Pump Power

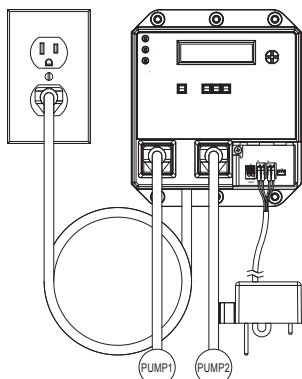
½ HP 12A Motor Load, 120VAC 60 Hz

15A General Usage, 120VAC 60 Hz

Step 1: Installation

The Duplexor™ is rated NEMA 1 for indoor use only!

1. Choose a wall location in a dry area and within 6 feet of a 120 Volt, 15 Amp grounded outlet (check local codes if GFI protection is required in the outlet) and within reach of both pump power cords.
2. Mount and secure the Duplexor™ panel in the desired location. Recommended to use four (4) screws (not included) and wall mount anchors (not included) if necessary.



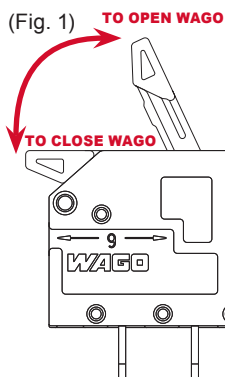
How to Use WAGO Lever Style Terminal

Before making wire connections and terminations, carefully read this step for proper functions the WAGO connectors terminal blocks.

WARNING: Improper use of the connectors will cause damage, DO NOT use mechanical tools to open or close, hand usage only.

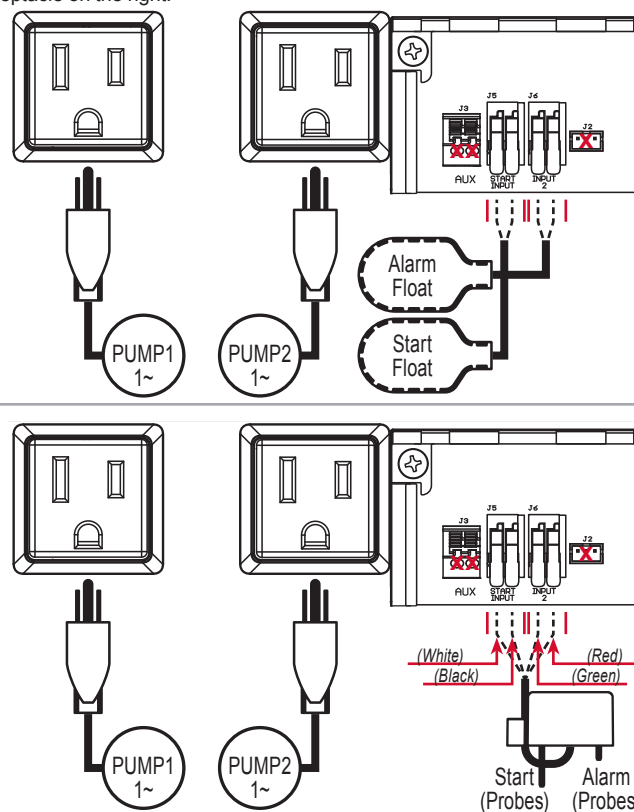
Wire Connection - Quick Snap Terminal WAGO (Fig. 1):

- 1) Pull tab(s) upward. DO NOT open past 40° angle.
- 2) Insert wire(s) into slot.
- 3) Press tab(s) downward.
- 4) Make sure wire(s) are secured.



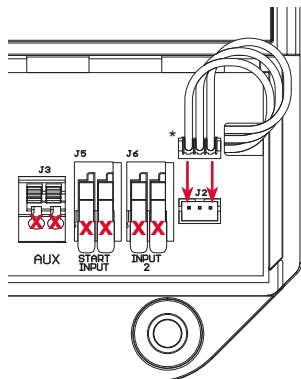
Step 2: Wiring Sensors

Wire the float switches or probes to the WAGO terminal blocks. Plug Pump 1 into the Pump 1 receptacle on the left and wire Pump 2 to the Pump 2 receptacle on the right.



Step 3: Connect Battery Backup

*The Duplexor will come with the backup battery disconnected from the board. After main power is applied, press the battery connector into the 3 pin header (J2) to get alarm backup power.

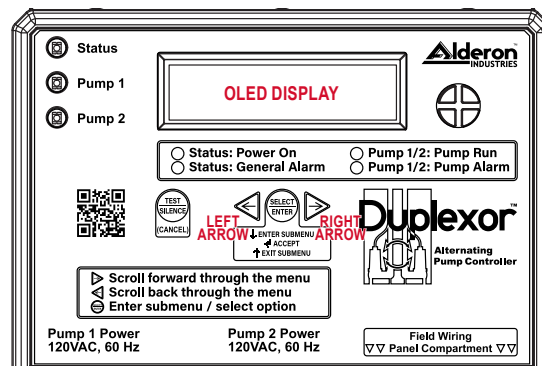


*Connect battery when Duplexor is put into service.

System Functions and Event Displays

ENCLOSURE LED	COLOR	SYSTEM FUNCTION DISPLAYED TEXT	DESCRIPTION OF SYSTEM FUNCTION
Power	Green Continuous	SYSTEM NORMAL	System is normal
	Green Blip	ON BATTERY	System running on battery
	Green Blip	LOW BATTERY	Battery level is low
	Green Slow Blink	NO BATTERY	The battery is disconnected
	Amber Continuous	EXT START ALARM	Start Input active too long
	Red Fast Blink	HIGH LEVEL INPUT ACTIVE	High Water Level detected
Pump 1	Red Continuous	[ERROR DISPLAYED]	The stated error is occurring. Press Select/Enter to clear if available
	Green Continuous	PUMP 1 RUN	Pump 1 is running normally
Pump 2	Red Continuous	[ERROR DISPLAYED]	Pump has the stated error occurring. Press Select/Enter to clear
	Green Continuous	PUMP 2 RUN	Pump 2 is running normally
Pump 2	Red Continuous	[ERROR DISPLAYED]	Pump has the stated error occurring. Press Select/Enter to clear
	Green Continuous	PUMP 2 RUN	Pump 2 is running normally

Navigating the Menu System



The User Interface Comprises of an 16 Character 2 Row OLED display and Four pushbuttons. The push buttons are Test/Cancel, Left Arrow, Select/Enter, and Right Arrow. While the system is idle the menu screen will be turned off; to wake up press any push button.

Home Screen: Will show System Normal or any active condition
Return to Home Screen: Press the Test/Cancel Button to return to the home screen.

Navigating the Menu: Press the Right Arrow to scroll through the menu. You can return to the previous selection by pressing the left button. Press the Select/Enter button to enter the submenu. Scroll to the rightmost option to return back to the previous page. The Default Menu Structure has been included below, making certain selections will change the menu structure. Please refer to the User Guide for a more detailed breakdown.

Using the Setup Wizard: The Setup Wizard will ask a series of Questions. Press the right / left button to change selection and press Select/Enter to confirm selection. Use the Setup Wizard if using manual pumps and enter pump run time. Factory default is "automatic pumps".

Abridged Menu Structure

- ▽ SYSTEM NORMAL, temperature and battery life
- ▽ SETUP WIZARD
- ▽ P1 (LEAD) FORCE PUMP RUN
- Ⓜ HOLD ENTER TO RUN PUMP 1
- ▽ P2 (LAG) FORCE PUMP RUN
- Ⓜ HOLD ENTER TO RUN PUMP 2
- ▽ ADVANCED
- Ⓜ SETTINGS
- ▽ SYSTEM SETUP
 - Ⓜ SILENCE TIME (Default is 24:00:00)
 - ▽ LOW BATTERY ALARM (Default is ENABLED)
 - ▽ TEMPERATURE UNIT (Default is FAHRENHEIT)
 - ▽ LOW TEMP POINT (Default is 40°F)
 - ▽ HIGH TEMP ALARM (Default is DISABLED)
 - ▽ HIGH TEMP POINT (Default is 120°F)
 - ▽ PASSWORD (Default is 1919)
- ▽ INPUT SETUP
 - Ⓜ EXT START ALARM (Default is DISABLED)
 - ▽ INPUT 2 TYPE (Default is HIGH LEVEL)
 - ▽ HIGH LEVEL DELAY (Default is 05)
 - ▽ PROBE INPUT SENSITIVITY
 - Ⓜ START INPUT (Default is MEDIUM)
 - ▽ INPUT 2 (Default is MEDIUM)
- ▽ PUMP SET UP
 - Ⓜ PUMP RUNTIME (Default is 00:05)
 - Ⓜ LEAD PUMP (Default is ALTERNATING)
 - ▽ MAX RUNNING PMPS (Default is 1)
 - ▽ PUMP 1 & 2 SET UP
 - Ⓜ P1/2 ENABLED (Default is ENABLED)
 - ▽ P1/2 TYPE (AUTO/MANUAL depending on Setup Wizard)

- - - ▽ P1/2 HIGH AMP LVL (Default is 15.0 AMPS)
- - - ▽ P1/2 LOW AMP LVL (Default is DISABLED)
- - - ▽ P1/2 FLOW RATE (Default is 0.0 GPM)
- - - ▽ P1/2 EXT RUN ALARM (Default is 00:05:00)
- - - ▽ P1/2 EXERCISE INT (Default is DISABLED)
- ▽ STATS
 - Ⓜ RESETTABLE STATS
 - - Ⓜ PUMP 1 STATS
 - - ▽ PUMP 2 STATS
 - - ▽ EXT START ALARM STATS
 - - ▽ HIGH LEVEL ALARM STATS
 - - ▽ ON BATTERY STATS
 - - ▽ LOW TEMPERATURE STATS
 - - ▽ HIGH TEMPERATURE STATS
 - - ▽ RATING EXCEEDED STATS
 - ▽ Lifetime Stats
 - Ⓜ Pump 1 Stats
 - ▽ Pump 2 Stats
 - ▽ Ext Start Alarm Stats
 - ▽ High Level Alarm Stats
 - ▽ On Battery Stats
 - ▽ Low Temperature Stats
 - ▽ High Temperature Stats
 - ▽ Rating Exceeded Stats
 - ▽ FIRMWARE VERSION CPCSDS1
 - ▽ CONFIG CODE

*Menu options in *italic text* are available in Manual Pump mode.

Customer Support

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Email
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QR Code
Scan code for full product details

