

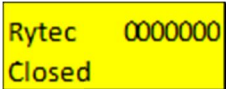
|                               |                                                     |            |           |        |        |
|-------------------------------|-----------------------------------------------------|------------|-----------|--------|--------|
| Summary                       | PLC Summary for Powerhouse XL Dual Drive Controller |            |           |        |        |
| Products Affected             | Powerhouse XL Dual Drive                            |            |           |        |        |
| Key Word Tags                 | Powerhouse XL Dual Drive                            |            |           |        |        |
| Tools/Equipment (If Required) |                                                     |            |           |        |        |
| Parts/Materials (If Required) | R00142089                                           |            |           |        |        |
| Related Media                 |                                                     |            |           |        |        |
| Author                        | Randy Meyer, Rev A M Burzlaff                       | Issue Date | 3/12/2012 | Status | Active |

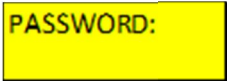
## Please Read The Entire Bulletin Before Proceeding

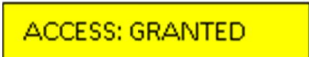
The Powerhouse XL dual drive door utilizes a Unitronics PLC (programmable logic controller) to control motor contactors allowing the Powerhouse XL door to open and close. This PLC uses inputs and outputs in the PLC to control the motion of the door. Below are instructions that explain how to program and/or access the PLC.

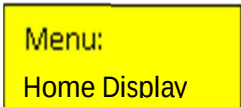


Entering the programming:

Typical display  Push the Enter Key 

Now display reads  Enter code 514 and press Enter 

The display will read for 2 seconds: 

The display will now read: 

Under the Home Display there are 4 available sub programs: Status I/O, Timers, Door Function 1-4 and

## Output Relay.



Scroll using UP/DOWN arrow to view different menus.



Left arrow will take you back to the home display.

For example:

Menu:  
Home Display

Push the Down arrow:



The display now reads:

Menu:  
Status I/O

Push Enter



This display box appears:

I/O Status:  
I01:X O00:X

The X represents the Input 1 status

(0=open, NO, 1=closed, NC). I/O1:X Input 1, O00:X output 0 status.



The right and left arrows allow you to navigate through the different I/O status up to 15.

NOTE: Only Inputs 1-7 are used. Menu status only showing the current condition of the input or output, actual programming for the input or output performed under Menu: Door function (Inputs) or Menu: Output relay. See later in this bulletin.

## SETTING TIMERS:

Rytec 0000000  
Closed

Push the Enter Key



Now display reads

PASSWORD:

Enter code 514 and press Enter



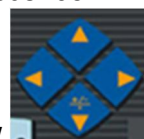
The display will read for 2 seconds:

ACCESS: GRANTED

The display will now read:

Menu:  
Home Display

Push DOWN arrow



until you reach: **Menu:  
Timers** Push the Enter Key 

The display will read: **Set Timer:  
T1 Open Run T X** Push the Enter Key 

The display will read: **T1 Open Run T  
X seconds (0-60)**

The Open run timer is a back-up timer for the opening, timer should be set to the time it takes the door to open plus 2 additional seconds. "X" represents the value in seconds that you would like the timer to be set.

There are 6 timers:

|                                              |                                            |                                                |
|----------------------------------------------|--------------------------------------------|------------------------------------------------|
| <b>T1 Open Run T</b><br>XX seconds (0-60)    | <b>T2 Close Run T</b><br>XX seconds (0-60) | <b>T3 Auto Close T</b><br>XX seconds (0-60)    |
| <b>T4 LED Warning T</b><br>XX seconds (0-10) | <b>T5 LED Flash T</b><br>XX X0.1sec (5-15) | <b>T6 Rev. Delay T</b><br>XX X0.1 sec (10-3.0) |

NOTE: T6 Rev. Delay default 2 seconds.

Use the UP/DOWN arrows to navigate to the timer you would like to adjust. When you've reached the timer you would like to adjust push the enter. The value in the bottom left will flash with the cursor. Enter the value you'd like and push enter. Number stops flashing and new value is set. Push the LEFT arrow twice to exit to run mode.

DOOR FUNCTION: Sets the function of inputs 13 (OPEN) and 14 (Close), option to run door with timer or without.

**Rytec 0000000**  
**Closed** Push the Enter Key  Now display reads **PASSWORD:**

Enter code 514 and press Enter 

The display will read for 2 seconds: **ACCESS: GRANTED**

The display will now read: **Menu:  
Home Display**



Push DOWN arrow

until you reach:

Menu:  
Door Function

Push the Enter Key



Four options are available under door function:

0: Hold Open/Close—Requires constant pressure on open or close button to operate door.

1: Impulse Open/Hold close—Requires momentary contact to OPEN, constant pressure to CLOSE.

2: Impulse Open/close—Requires momentary contact to OPEN, momentary contact to CLOSE.

3: Impulse Open/TIMER Close—Requires momentary contact to OPEN, timer to close.

OUTPUT RELAY: – Powerhouse XL control has a CR1 relay available to monitor door or warning device, i.e. horn.

Rytec 0000000  
Closed

Push the Enter Key



Now display reads

PASSWORD:

Enter code 514 and press Enter



The display will read for 2 seconds:

ACCESS: GRANTED

The display will now read:

Menu:  
Home Display



Push DOWN arrow

until you reach:

Menu:  
Output Relay

Push the Enter Key



The display will read:

Output Relay: X  
X: "DOOR "xxx"

The relay (CR1) has 5 options available as to when CR1 will be active:

X represents the number of the function 0-5 (skips 3) and the "xxx" message displayed, examples below:

Output Relay:  
0: Door Open

Output Relay:  
1: Door Closed

Output Relay: 4  
2: Door Moving

Output Relay: 4  
3: Door Opening

Output Relay:  
4: Door Closing

Push the left arrow twice to exit programming.



If you have questions please contact Rytec technical support at 1-800-628-1909.