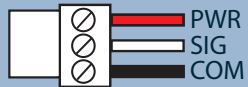# ALiEn²™
PLUNGER LIFT CONTROLLER

Quick Install Guide

Step 1 - Wire Back Panel

a) Plug in Valve Connectors.

b) Connect Field Devices.

    - 2 Wire Switches are wired to COM and SIG.

    - 3 Wire Sensors are wired to PWR, COM and SIG.

c) Plug in Battery Connection.

d) Connect Solar Panel.

PWR
SIG
COM

Step 2 - Setup Security

a) Press **install**.

c) Enter the default login of 000-0000.

b) Scroll down to the *Security* menu.

b) Press **5 select** and scroll down until you see Operator ID.

d) Press **5 select** and set the desired ID.

e) Change the Installer ID in the same manner.

Step 3 - Set Date/Time

a) Press **install** and scroll to *Date/Time.*

b) Press **5 select** to enter the menu.

c) Adjust the Date and/or Time.

d) Set the Daylight savings time option to on if desired.

Step 4 - Controller Setup

a) Press **install** and then scroll to *Inputs*.

b) Enable and configure any required devices.

c) Press **cancel** to back out to the menu.

d) Scroll to *Outputs* to enable additional valves in the same manner.

e) Enter the *Alarms* menu to configure the behaviour when failures occur.

f) Enter Optimize to set the optimization.

Note: Changes to install settings do not take effect until the next **Close** cycle.

Step 5 - Start Controller

a) Press **close** or **open** to reset the controller to a given state.

b) The controller will set the valves and the screen will update to show the current state and remaining time.

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ALiEn2™
PLUNGER LIFT CONTROLLER

Quick Tips

Changing Timers/Set Points

a) Press `settings`.

b) Use the up/down arrow keys to scroll through each setting.

c) Press `5 select` to edit a given setting.

Note: Most timers are related to each other and will auto adjust. Values entered below the min or above the max will be adjusted automatically.

Note: Timer settings do not take effect until the next **Close** cycle.

Adding/Removing Devices

a) Press `install` and then scroll to the **Inputs** menu.

b) Press `5 select` and then scroll through each screen.

c) Press `5 select` to edit a given setting.

Note: Additional device screens are hidden until the device is enabled.

Note: Changes to input settings do not take effect until the next **Close** cycle.

Change State Manually

a) From the main screen, press `5 select`.

b) Select yes, and then set the desired state and time.

c) The controller will enter the desired state and then resume normal operation once complete.

View History

a) Press `history` to enter the **History** menu.

b) `5 select` the type of history you wish to see.

c) Scroll through each history screen.

Note: All logs in the history menu have multiple records displayed in reverse chronological order.

Modifying Alarms

a) Press `install` and scroll to the **Alarms** menu.

b) Scroll to the desired alarm setting and press `5 select` to modify it.

Note: Fast Trip and Non Arrival alarms are consecutive occurances.

Configure Modbus

a) Press `install` and scroll to the **Modbus** menu.

b) Press `5 select` to enter the menu.

c) Select the Modbus Port and set it to enabled.

d) Scroll through each setting, ensuring that it matches the Modbus master.

Note: To communicate properly, all communication settings must match the master's settings.

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