

ARControl Dual Pilot Flare Controller Quick Start Guide

This quick start guide provides information regarding hardware installation and using Spark Ignition as the igniter type. The ARControl Dual Pilot Flare Controller is also compatible with Hot Surface Ignition. Refer to the user manual for more information regarding ignition types and electrical considerations. You may find the user manual on our website at: <https://www.arcontrolbms.com/>

Hardware Installation

The ARControl should **always** be installed according to the directions provided in this manual and in compliance with local electrical codes and the specifications of the operating company.

Follow these guidelines when installing the ARControl:

- All personnel must read, and understand, the information in the User Manual before performing any operations related to the product.
- Locate the unit out of traffic and working areas, away from excessive heat, and above areas where water and liquids may accumulate. Visibility of the display will be enhanced if not facing direct sun.
- Measure the wiring distance. The ignition cable is restricted to a length of 25 feet maximum.
- Proper earth grounding per local electrical codes must be utilized in the installation.
- A switch or circuit breaker must be included in the installation. It must be suitably located, easily reached and be marked as the disconnecting device for the equipment.
- If the BMS Module is used in conjunction with the ARControl it must be mounted externally of the ARControl in order for the ARControl to remain regulatory compliant.
- When installation is complete, ensure that the enclosure is properly sealed and the fasteners are tight.
- Do not service in a hazardous area
- Disconnect and remove the battery during transportation or when the ARControl will not be operated for a period of time.
- If the ARControl is used in a manner not specified by Cimarron Energy, Inc., the protection provided by the equipment may be impaired.

Follow these steps to install the ARControl using spark ignition:

1. Locate and open the hardware kit.
2. Attach the mounting flanges to the back of the ARControl with the supplied hardware.
3. Holes will need to be drilled in the bottom of the enclosure to accommodate the cables and conduit to the unit.
4. Mount the ARControl via the flanges to a secure location and away from heat sources.
5. Mount ignition module assembly (1960-170) to or near pilot assembly. **WARNING: Mounting ignition module inside enclosure VOIDS the 1960-155 ARControl Class I Division 2 rating.**
6. Connect ignition wire to tab of the ignition module spark transformer.
7. Connect thermocouple to TC1 & TC2 thermocouple inputs on the ignition module.
8. Wire the ignition module's power and RS485 connections to the ARControl's MODULE PORT.
9. Attach the free end of the ARControl's grounding wire (green wire with yellow trace) to the burner's chassis.
10. Attach the free end of the grounding wire (green wire with yellow trace) to the burner's chassis.
11. Connect the power source (12 or 24 VDC) to the power and ground terminal blocks.
12. Navigate to **START IGNITION** and press **OK**. The system will start the ignition cycle.

Important!
I/O board stickers.
Replace when missing.

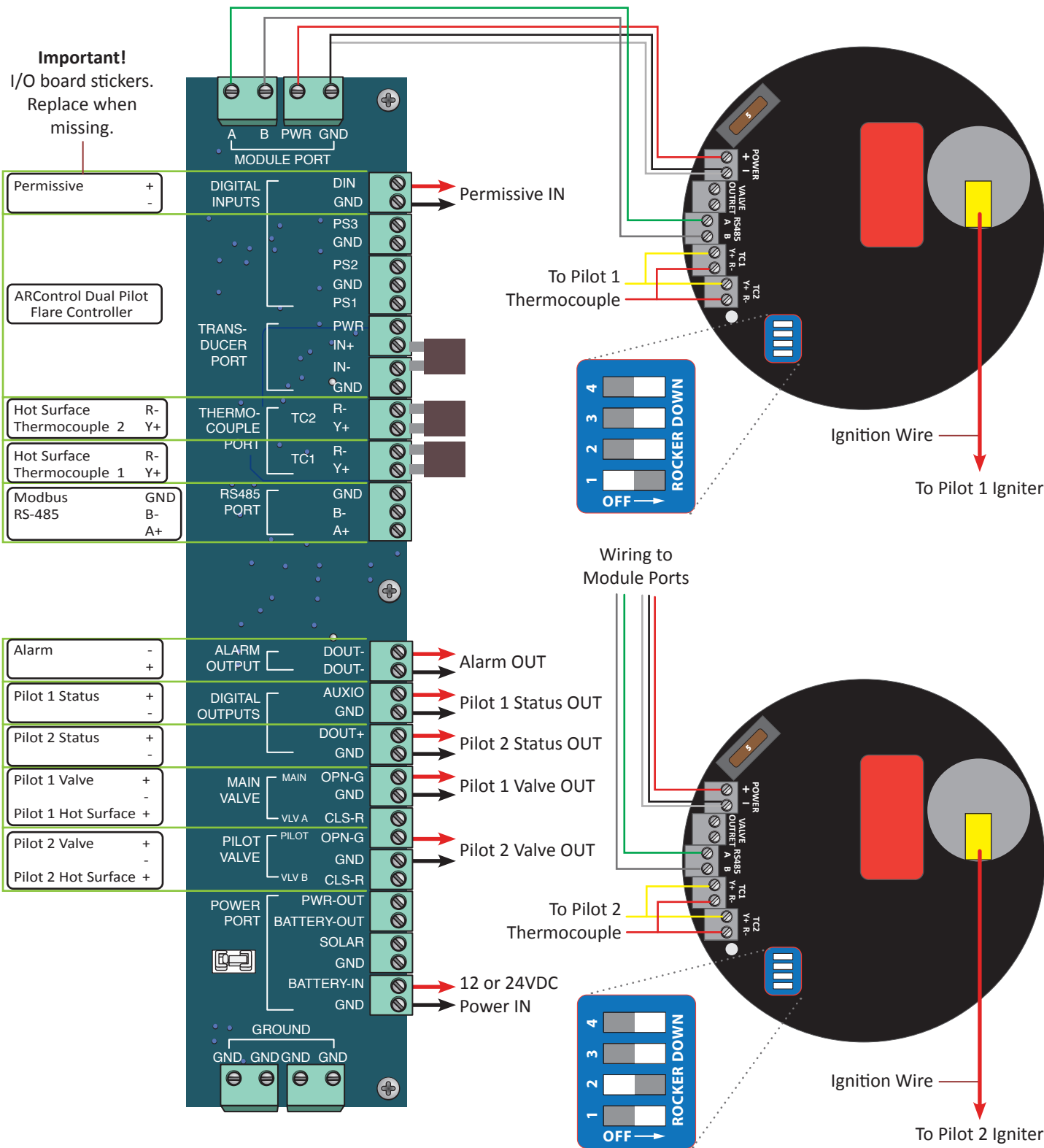


Image: Dual spark ignition wiring diagram

Maintenance & Service

Please contact Cimarron Energy, Inc. for information in regard to maintenance, parts, or service:

1-844-746-1676

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