OMNIPRO
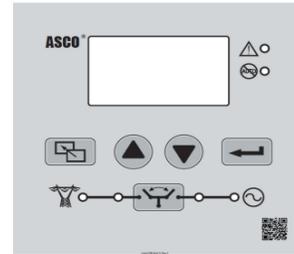## ASCO300 Install Guide

1. Unpack Components
  - Unpack the monitor, antenna, and data and power cable.
  - Inspect all components to ensure there is no shipping damage.

2. Installing Antenna
  - Place the antenna vertically at the center of the roof of the generator.
  - Route the antenna cable into the area of the generator control.
  - Ensure a drip loop lower than the monitor to prevent water from running down the antenna cable into the monitor connection.

3. Attach the Antenna Cable:
  - Attach the antenna cable to the front of the monitor and tighten thumb tight.

4. Attaching the Monitor.
  - Attach the monitor via its magnetic feet, on top of the engine controller or another appropriate location.
  - Horizontal surfaces are best, but the unit may be mounted vertically or even upside down if necessary.

*Note: If mounted vertically, install the monitor with the cables down to prevent water from entering the enclosure.

5. Connect the Monitor:
  - The monitor can connect to the ASCO300 Controller via a 2-wire (RS485) Modbus connection.

6. Utilize Modbus Capabilities:
  - Install jumper connections on terminal block TB2 to complete the RS485 signal path. Install one jumper between terminals TB2-1 and TB2-3, and a second jumper between terminals TB2-2 and TB2-4.
  - connect the white conductor (Data + / RS485 A) to terminal TB2-1 and the green conductor (Data − / RS485 B) to terminal TB2-2.
  - Set up Controller Communications port to 9600 Baud, Node Address 1*, Parity None.

* Node Address will depend on installation type.

7. Power On and Check LEDs:
  - Turn on the monitor and confirm that the LEDs light up and blink. (Scan QR code for light sequence)
  - If not, check for power wires at the battery.

8. Confirm Installation:
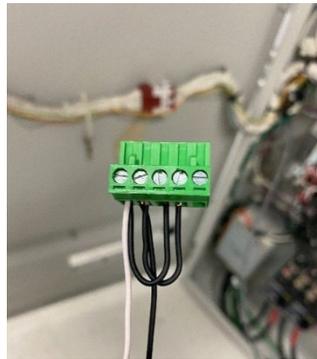 - Allow 15 minutes for the monitor to log into the network. Call OmniMetrix at 770-209-0012 to confirm installation.

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ASCO300 Install Guide

ASCO300 Wiring Diagram			
SLEEVE COLOR	OMNI WIRE	FUNCTION	TERMINATION
Red	Red	Power In (9-30Vdc)	Battery +
	Black	Ground	Battery -
Blue	White	Modbus Data +	TB2-1
	Green	Modbus Data -	TB2-2

* Jumper wire between TB2-1 to TB2-3 and TB2-2 to TB2-4

ASCO300 TB2 Connecter

ASCO300 Back of Controller View

If you have any questions, please call OmniMetrix Tech Support at

770-209-0012 or email at techsupport@omnimetrix.net

Configuring Cummins Modbus Serial Settings

ASCO300 Modbus Set Up Step by Step

1. Press the Enter/Save button on the controller.

2. Use the Down Arrow to scroll to **Settings** and press Enter.

3. Scroll down to **General** and press Enter.

4. Select **Communication** and press Enter.

5. If prompted for a password, enter the default password: **1111**.

6. Use the Up/Down Arrow keys to navigate through the parameters.

7. Scroll to **Baud Rate**, press Enter and set the value to **9600**.

8. Scroll down to **Device Address**, press Enter and set the value to **1** (or the required address).

9. Scroll down to **Protocol**, press Enter and set the value to **Modbus**.

10. Verify that Emulate Grp1 is unchecked.

11. Press Escape repeatedly until you return to the main display screen.