

OMNIPRO

Cummins PCC 2x,3x

Installation Guide



Parts List

Item	Part Number	Qty
OMNIPRO Monitor Unit	OMC.330000	1
Cellular Antenna, 4" Magnet Mount	OMC.100105	1
OMNIPRO Power Cable	OMC.240000	1
OMNI 4-alarm RS485 start/stop relay cable	OMC.260000	1





1. Unpack Components

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

2. Install the 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. Attach the Monitor

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

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

5. Connect the Monitor

- The monitor can connect to the Cummins Controller via a 2-wire (RS485) Modbus connection.
- Remote Start will be done via 2-wire Start wires.

6. Power On and Check LEDs

- Turn on the monitor and confirm that the LEDs illuminate and blink.
- If the LEDs do not light, check for power wires at the battery.

7. Confirm Installation

- Allow 15 minutes for the monitor to log into the network.
- Call OmniMetrix on 770-209-0012 or email techsupport@omnimetrixconnect.com to confirm successful installation.



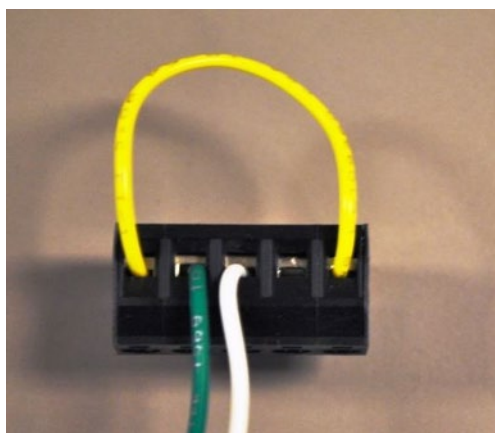
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Cummins 2x,3x — Wiring Diagram

SLEEVE COLOR	OMNI WIRE	FUNCTION	TERMINATION
Red	Red	Power In (9–30 Vdc)	TB1-5
	Black	Ground	GRND Terminal
Blue	White	Modbus Data +	TB15-3
	Green	Modbus Data 1	TB15-4
	Yellow/White	2-Wire Remote Start	TB1-11
	Brown/White	Ground for 2-Wire Start	TB1-10
*Customer Supplied Wire – Jumper between TB15-1 and TB15-5			



HMI320 (Communication Port TB15)



TB15 Data+ (White) Data- (Green) with Jumper





Modbus Settings Setup Procedure

- **Press the Home button** on the controller.
- **Press the Down arrow** to navigate through the menu options.
- **Select “Modbus Setup”** and press **OK**.
- **Enter Password (if prompted)**
 - Enter **574** when prompted for a password.
 - If the controller requires more than three digits, **add leading zeros** (example: **0574**).
- **Set the Node Address**
 - Use the **arrow keys** to highlight **Node Address**.
 - Press **OK**.
 - Set the value to **1**.
 - Press **OK** to save.
- **Set the Baud Rate**
 - Use the **arrow keys** to highlight **Baud Rate**.
 - Press **OK**.
 - Set the value to **9600**.
 - Press **OK** to save.
- **Set the Parity**
 - Use the **arrow keys** to highlight **Parity**.
 - If the value is not set to **None**, press **OK**.
 - Change the value to **None**.
 - Press **OK** to save.
- **Set the Failure Time Delay**
 - Use the **arrow keys** to highlight **Failure Time Dly**.
 - If the value is **4**, press **OK**.
 - Change the value to **10**.
 - Press **OK** to save.
- **Press the “C” button** on the controller to exit the menu.
- **Return to “Modbus Setup”** and verify that all settings were saved correctly.
- Once the settings have been verified, **press the Home button** to exit the menu.

