

# OMNIPRO

## Cummins PCC 1X, 2x, 3x 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 Cummins Controller via a 2-wire (RS485) Modbus connection.

### 6. Utilize Modbus Capabilities:

- Connect the OMN white (Data+) and green (Data-) wires to connector TB15.
- Set up Controller Communications port to 9600 Baud, Node Address 1, Parity None. Enable Modbus.

### 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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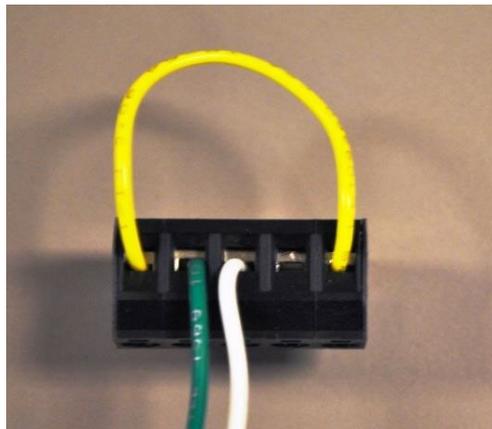
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Cummins 1x,2x,3x Wiring Diagram			
SLEEVE COLOR	OMNI WIRE	FUNCTION	TERMINATION
Red	Red	Power In (9-30Vdc)	Battery +
	Black	Ground	Battery -
Blue	White	Modbus Data +	TB15-3
	Green	Modbus Data -	TB15-4

\* Jumper wire between TB15-1 and TB15-5 (Customer supplied wire)



HMI211 (Communication Port TB15)



TB15 Data+ (White) Data- (Green)

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

770-209-0012 or email at [techsupport@omnimetrix.net](mailto:techsupport@omnimetrix.net)

Configuring Cummins Modbus Serial Settings





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- Press the **left arrow** key (<) to get to the home screen
- Press and hold the **UP** and **DOWN** arrows simultaneously, until you see **Setup and Services**
- Select the **Service Menu** and press the down arrow to **Set UP**
  - You will be asked for a password, you will enter **574**, if more than 3 digits add a leading 0's
- You will see **Genset Service** and **Genset Setup**
  - You will select **Genset Services**
- Press the down arrow key to get to **Modbus** (Option 5)
- You will see **Modbus Enable**, should be set to **Yes**, but if it says **No**, then you will change to **Yes** and select **Save**
- Next select the down arrow to get to the communications settings, you will see **Address**, **Baud Rate**, and **Parity**
- You will set each as stated below
  - **Address** = 1
  - **Baud Rate** = 9600
  - **Parity** = None
- Then select **Save**
- Press the **left arrow** key until you get back to the home page

