Cummins PCC 1x

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.
- Communication Settings: Baud 9600, Parity None, Slave 1

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.

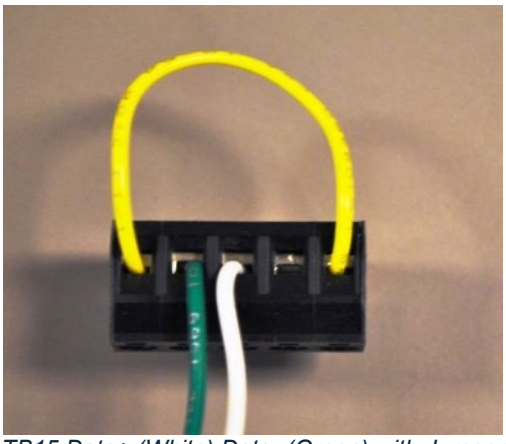
7. Confirm Installation

- 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.

Cummins 1x — 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
*Customer Supplied Wire – Jumper between TB15-1 and TB15-5			



HMI211 (Communication Port TB15)



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

Modbus Settings Setup Procedure

- 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