

1. Unpack the monitor, antenna, and data*/power cable. Check for any shipping damage and connect the 25-pin cable to the monitor's front. This cable handles power, alarm inputs, relay outputs, and analog inputs.
2. Place the antenna vertically on the generator roof, ensuring it's at least 20 cm away from people and not transmitting simultaneously with other antennas. Create a drip loop to prevent water from entering the cable connection.
3. Attach the monitor to a suitable horizontal surface on the engine controller or similar location using its magnetic feet. It can be mounted vertically or upside down if needed, but ensure cables are positioned to prevent water ingress.
4. Feed the data*/power cable through the generator control's bottom entry.
5. Please see below for installation instructions based on controller.
6. Connect and tighten the antenna cable to the monitor's front.
7. Turn on the monitor and check if the LEDs light up and blink. If only the Power LED is lit after 5 minutes, check power connections and antenna setup.
8. Allow 15 minutes for network login, then contact OmniMetrix at 770-209-0012 to verify installation. Access machine data through the OmniView® web interface at www.omnimetrix.net.

* Lantronix Module

Data/Power Cable



Lantronix



PowerZone Pro



PowerZone Pro Sync



PowerZone Pro

Wiring Modbus RS-485 on Gateway

| Wiring Table | | |
|--------------|--------------------|---------------------|
| OMN WIRE | FUNCTION | GATEWAY TERMINATION |
| Red | Power In (9-30Vdc) | Battery+ |
| Black | Ground | Battery- |
| White | RS485+ | 12-A |
| Green | RS485- | 12-B |

* A 4-pin connector will be needed to land wires on RS-485 terminal.

** Lantronix can be used on ethernet port on Gateway

If using the connectivity server, you have two options to connect, Lantronix or USB to RS-485 converter.

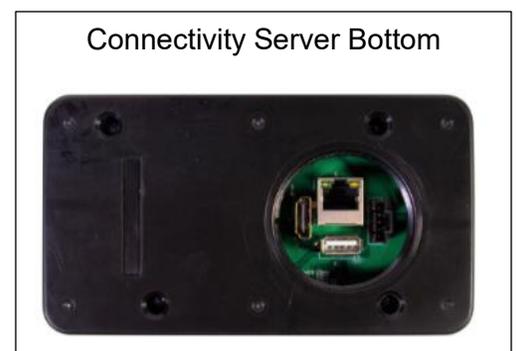
Setting up Modbus RTU on PZ menu:

To enable Modbus RTU access, check the Modbus RTU checkbox and configure the RS-485 port settings as mentioned below:

1. Navigate to Communications → External Devices → Modbus RTU.
2. Set Serial Port = RS-485 Built In.
3. Baud Rate=9600
4. Parity = None
5. Stop Bits = 1
6. Unit ID = 1

Setting Up Ethernet settings on PZ Menu:

1. Navigate to Setup → Communications → Ethernet/Wi-Fi/Bluetooth.
2. In the "Connection Mode" setting, select "Static"(A).
3. This mode is selected to assign IP address (IPv4) to computer port interface (B).
4. IPV4 Address, Subnet, DNS and Gateway (C) are set to match the requirements of host network.
 - Modbus Slave ID = 1
 - IP Address: 10.0.1.101
 - Subnet Mask: 255.255.0.0
 - Gateway: 10.0.1.1 (This is not important)
5. Click "Apply Changes" (D)



PowerZone Pro Sync

Wiring Modbus RS-485 on PowerZone Pro Sync

| Wiring Table | | |
|--------------|--------------------|-----------------------|
| OMN WIRE | FUNCTION | POWERZONE TERMINATION |
| Red | Power In (9-30Vdc) | Battery+ |
| Black | Ground | Battery- |
| White | RS485+ | 3 |
| Green | RS485- | 4 |

* Lantronix can be used on ethernet port on back of controller

If using the connectivity server, you have two options to connect, Lantronix or USB to RS-485 converter.

Setting up Modbus RTU on PZ menu:

To enable Modbus RTU access, check the Modbus RTU checkbox and configure the RS-485 port settings as mentioned below:

7. Navigate to Communications → External Devices → Modbus RTU.
8. Set Serial Port = RS-485 Built In.
9. Baud Rate=9600
10. Parity = None
11. Stop Bits = 1
12. Unit ID = 1

Setting Up Ethernet settings on PZ Menu:

6. Navigate to Setup → Communications → Ethernet/Wi-Fi/Bluetooth.
7. In the "Connection Mode" setting, select "Static"(A).
8. This mode is selected to assign IP address (IPv4) to computer port interface (B).
9. IPV4 Address, Subnet, DNS and Gateway (C) are set to match the requirements of host network.
 - Modbus Slave ID = 1
 - IP Address: 10.0.1.101
 - Subnet Mask: 255.255.0.0
 - Gateway: 10.0.1.1 (This is not important)
10. Click "Apply Changes" (D)

