OmniPro

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 Generac Controller via a 2-wire (RS485, USB to RS485), or Ethernet (Lantronix) Modbus connection.
6. **Utilize Modbus Capabilities:**
   - Please refer to pages 2–3 of the installation guide for detailed instructions regarding the specific controller configuration and the associated wiring schematic.
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.

PowerZone Pro

PowerZone Pro Sync

PowerZone Pro

Wiring Modbus RS-485 on Gateway

Wiring Table			
Sleeve Color	OMN WIRE	FUNCTION	GATEWAY TERMINATION
Red	Red	Power In (9-30Vdc)	Battery +
	Black	Ground	Battery -
Blue	White	RS485+	12-A
	Green	RS485-	14-B

* A 4-pin connector will be needed to land wires on RS-485 terminal.
** Lantronix can be used on ethernet port on Gateway

Gateway

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

Setting up Modbus RTU on PZ menu:

Communications → External Interfaces → RS-485 Built In → Configure
Mode = Modbus Gateway
Enable RAP/RRP = Disabled
Baud Rate = 9600
Parity = None
Stop Bits = 1
Unit ID = 1

Connectivity Server Top

Setting Up Ethernet settings on PZ Menu:

Communications → External Interfaces → Ethernet Built-In → Configure
Enable = (☑)
Ignore Unit ID = (☑)

Communications → Ethernet/Wi-Fi/Bluetooth*
*If newer firmware is applied, you will not see Ethernet/Wi-Fi/Bluetooth, you will just see Ethernet
Ethernet Enabled = (☑)
Connection Mode: Static
IPv4 Address: 10.0.1.101
Subnet: 255.255.0.0
DNS: Stays Blank
Gateway: 10.0.1.1 (This is optional)
**Once IP address change is applied, you will not be able to use your PC to access controller. You will have to call Generac to get controller reset for access via PC.

Connectivity Server Bottom

PowerZone Pro Sync

Wiring Modbus RS-485 on PowerZone Pro Sync

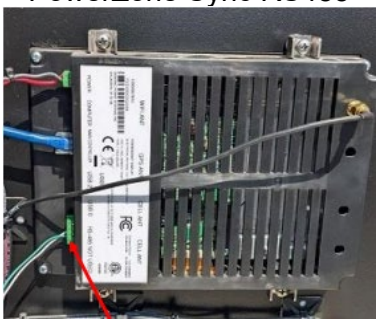
Wiring Table			
Sleeve Color	OMN WIRE	FUNCTION	GATEWAY TERMINATION
Red	Red	Power In (9-30Vdc)	Battery +
	Black	Ground	Battery -
Blue	White	RS485+	3
	Green	RS485-	4

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

Setting up Modbus RTU on PZ menu:

Communications → External Interfaces → RS-485 Built In → Configure
Mode = Modbus Gateway
Enable RAP/RRP = Disabled
Baud Rate = 9600
Parity = None
Stop Bits = 1
Unit ID = 1

PowerZone Sync RS485



Setting Up Ethernet settings on PZ Menu:

Communications → External Interfaces → Ethernet Built-In → Configure
Enable = (☑)
Ignore Unit ID = (☑)

Communications → Ethernet/Wi-Fi/Bluetooth*
*If newer firmware is applied, you will not see Ethernet/Wi-Fi/Bluetooth, you will just see Ethernet
Ethernet Enabled = (☑)
Connection Mode: Static
IPv4 Address: 10.0.1.101
Subnet: 255.255.0.0
DNS: Stays Blank
Gateway: 10.0.1.1 (This is optional)

PowerZone Sync Ethernet