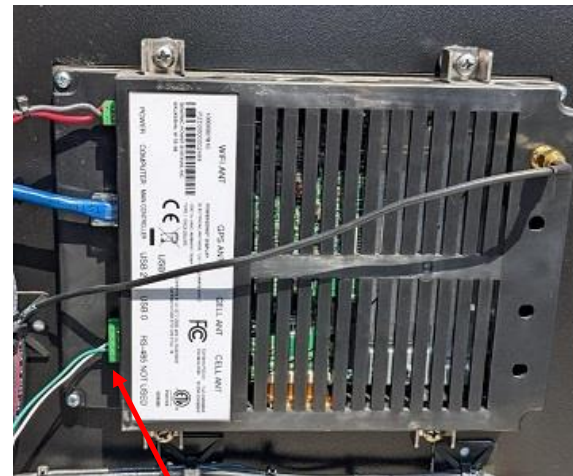


1. Unpack the monitor, antenna and the data/power cable. The 25 pin connector plugs onto the front of the OmniMetrix® monitor. This cable includes wires to power the monitor as well as wires for alarm inputs, relay outputs and analog inputs. Take a moment to inspect all components to verify there is no shipping damage.
2. Place the antenna vertically on the roof of the generator and route the antenna cable into the area of the generator control. The antenna used for transmitting must be installed to provide a separation distance of at least 20 cm from all persons and must not transmit simultaneously with any other antenna transmitters. BE SURE to provide a drip loop lower than the monitor to keep water from running down the antenna cable into the monitor connection.
3. Attach the monitor via its magnetic feet, on top of the engine controller or other 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.*
4. Route the data/power cable through the cable entry on the bottom of the generator control.
5. To utilize the Modbus capabilities of the PowerZone, connect the OMN white (Data+) and green (Data-) wires to RS-485-3 and RS-485-4 as shown in the photo. Attach the antenna cable to the front of the monitor, and tighten thumb tight.
7. Turn on the monitor and confirm that the LEDs light up and blink. If not, check for power on the terminal strip. If, after 5 minutes, the only LED lit is the Power LED, check the antenna mount and cable connection.
8. Allow 15 minutes for the monitor to log into the network and then call OmniMetrix at 770-209-0012 to confirm installation. Access to machine data is through the OmniView® web interface at www.omnimetrix.net. Contact OmniMetrix for login instructions and web training.



Data / Power Cable



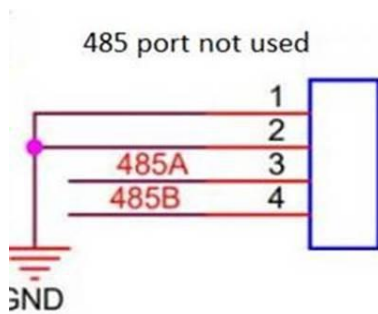
PowerZone Modbus
RS485 connection

Wiring Table		
OMN WIRE	Function	PowerZone Termination
Red	Power In (9-30 Vdc)	Battery +
Black	Ground	Battery -
White	RS485+	RS-485-3
Green	RS485-	RS-485-4

Table 1 - PowerZone Modbus Wiring

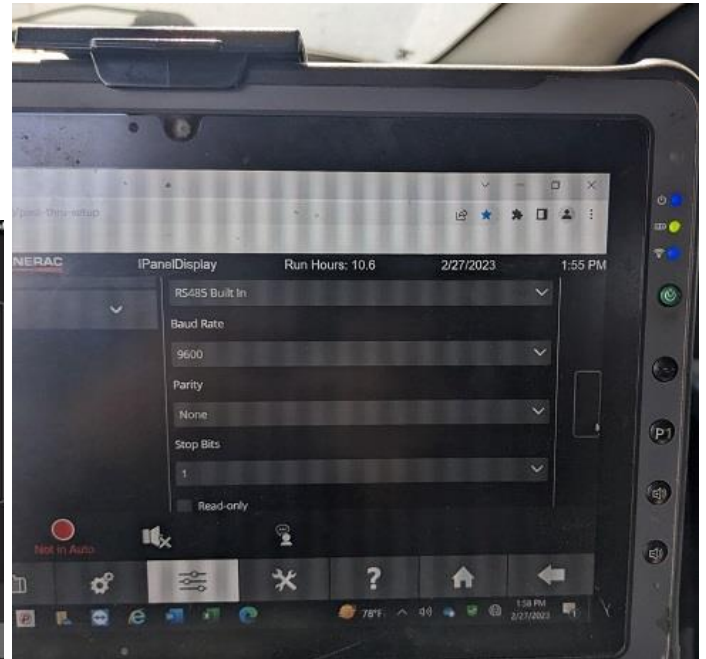
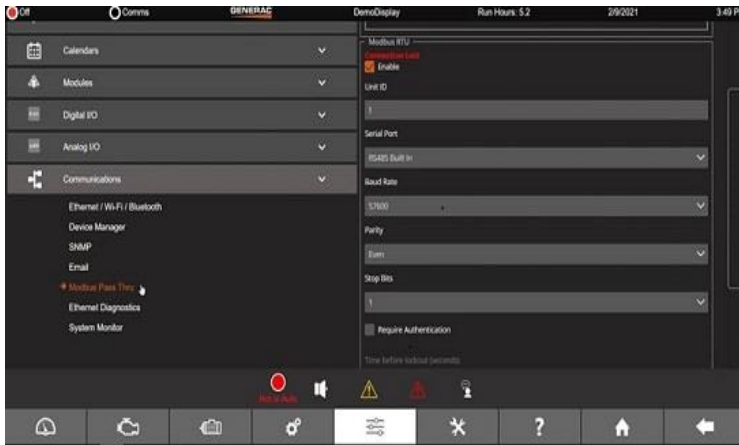
How to Connect to RS-485 Feed

The PZ-PS display has a port labelled “RS485 not used.”
 This is where you will make the Modbus connection
The terminals are pictured below



RS-485-1	Can be used to communicate via Modbus RTU (currently not implemented)	RS-485 Ground	
RS-485-2		RS-485 Ground	
RS-485-3		RS-485 +	
RS-485-4		RS-485 -	

In the PZ Menu, set up the port as shown here:



- **Comms**
- **Modbus Pass Thru**
 - **Modbus RTU**
 - **Unit ID (1)**
- Serial Port = RS485 Built In
- Baud Rate = 9600
- Parity (set) = None
- Stop Bits = 1
- Unit ID = 1

Protocols can be set according to the system requirements provided by BMS support.

Attach the OMNI power wires, Red and Black, to generator Battery + and – respectively.