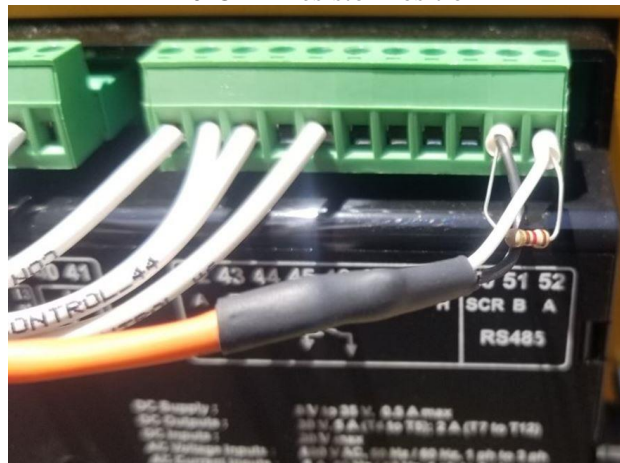


1. Unpack the monitor, antenna, and data/power cable. Verify no shipping damage. The data/power cable is a 25-pin connector for power and data/alarms.
2. Place the antenna vertically on the generator roof, ensuring 20 cm separation from people and other transmitters. Use a **drip loop** to prevent water damage.
3. Attach the monitor to the engine controller. Mount horizontally ideally, but vertical or upside-down is possible—install vertically with cables down to prevent water ingress.
4. Attach the antenna cable to the monitor's front and tighten it.
5. Connect RED wire to Battery+ and BLACK wire to Battery-.
6. Connect OMNI WHITE (Data+) to terminal A (52), OMNI GREEN (Data-) to terminal B (51) into RS485 on the panel and add the provided 120-ohm resistor to terminals 51 & 52.
7. **CAT interlock Code** required to access DSE Configuration Suite Software to configure Modbus settings and Virtual LED Outputs.
8. Set controller's Modbus settings: Slave ID = 10, Baud Rate = 19,200
9. Turn on the monitor and check the LEDs. Check the antenna mount and cable if only the power LED is lit after 5 minutes.
10. Allow 15 minutes for network login. Confirm installation by calling OmniMetrix or access machine data via OmniView web interface at <https://webdata.omnimetrix.net>



TrueGuard Pro Wiring Table		
Omni Wire	Function	Termination
Red	Power In	Generator Battery +
Black	Ground	Generator Battery -
White	RS485 A	52
Green	RS485 B	51
* 120-Ohm Resistor on 51 & 52		

120-Ohm Resistor Position



If you have any questions, please call OmniMetrix Tech Support at 770-209-0012 or email at [techsupport@omnimetrixconnect.com](mailto:techsupport@omnimetrixconnect.com).

The DSE Configuration Suite Software required for configuring the Virtual LED Outputs.

Deep Sea 6310 Virtual Outputs		
Deep Sea Virtual Output	Function	OMN Alarm ID
Virtual LED Output 1	Not Used	64
Virtual LED Output 2	Calling For Scheduled Run	65
Virtual LED Output 3	System In Auto Mode	66
Virtual LED Output 4	System In Manual Mode	67
Virtual LED Output 5	System In Stop Mode	68
Virtual LED Output 6	Common Alarm	69
Virtual LED Output 7	Common Warning	70
Virtual LED Output 8	Common Shutdown	71
Virtual LED Output 9	Fail to Start	72
Virtual LED Output 10	Over Speed Shutdown	73
Virtual LED Output 11	High Coolant Temp Warning	74
Virtual LED Output 12	High Coolant Temp Shutdown	75
Virtual LED Output 13	Low Oil Pressure Warning	76
Virtual LED Output 14	Low Oil Pressure Shutdown	77
Virtual LED Output 15	Battery Low Voltage	78
Virtual LED Output 16	Generator Low Voltage Warning	79
Virtual LED Output 17	Generator High Voltage Shutdown	80
Virtual LED Output 18	Emergency Stop	81
Virtual LED Output 19	Fuel Level Low Alarm	82
Virtual LED Output 20	Low Coolant Temp	83

### Virtual LED

The screenshot shows the 'Virtual LEDs' configuration window in the 7310 MKII Configuration v7.7 software. The left sidebar contains a tree view with the following items: 7310 Configuration, Module, Application, Inputs, Outputs (with sub-items Digital Outputs and Virtual LEDs), Timers, Generator, Engine, Communications (with sub-item Communications Options), RS232 Port, RS485 Port, Remote Display, Scheduler, and Maintenance Alarm. The main area is titled 'Virtual LEDs' and contains a section for 'LED Configuration'. This section is a table with three columns: LED number, Source, and Polarity. The table lists 20 LEDs with their respective sources and polarities.

LED	Source	Polarity
LED 1	Not Used	Lit
LED 2	Calling For Scheduled Run	Lit
LED 3	System In Auto Mode	Lit
LED 4	System In Manual Mode	Lit
LED 5	System In Stop Mode	Lit
LED 6	Common Alarm	Lit
LED 7	Common Warning	Lit
LED 8	Common Shutdown	Lit
LED 9	Fail To Start	Lit
LED 10	Over Speed Shutdown	Lit
LED 11	High Coolant Temperature Warning	Lit
LED 12	High Coolant Temperature Shutdown	Lit
LED 13	Low Oil Pressure Warning	Lit
LED 14	Low Oil Pressure Shutdown	Lit
LED 15	Battery Low Voltage	Lit
LED 16	Generator Low Voltage Warning	Lit
LED 17	Generator Low Voltage Shutdown \ Electrical Trip	Lit
LED 18	Emergency Stop	Lit
LED 19	Fuel Level Low Alarm	Lit
LED 20	Low Coolant Temperature	Lit

### RS485 Settings

7310 MKII Configuration v7.7

- 7310 Configuration
  - Module
    - Application
  - Inputs
  - Outputs
  - Timers
  - Generator
  - Engine
  - Communications
    - Communications Options
      - RS232 Port
      - RS485 Port**
      - Remote Display
  - Scheduler
  - Maintenance Alarm
  - Configurable CAN Instrument
  - Alternative Configurations

#### RS485 Port

##### Basic

Server ID: 10  
Baud Rate: 19200  
Port Usage: RS485 Modbus Client

##### Advanced

Client inactivity timeout: 5s

##### Modbus

Inter-frame delay: 0 ms  
Stop Bits: 1  
Parity checking: No Parity