

TrueGuard-2™ is for use on 12v systems only.

1. Unpack the OmniMetrix monitor and antenna. The integrated cable includes wires to power (red and black) and the monitor as well as wires for the MODBUS input (yellow and white). 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 antennacable 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 people and must not be transmitted 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, to the 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 integrated data/power cable into the generator control enclosure.
5. Instructions for wiring the monitor can be found on the table on the following page.
6. Attach the antenna cable to the front of the monitor and tighten thumb tight.



TrueGuard-2
Monitor

Terminations for where to land the specific Omni wires for the installation are mentioned below.

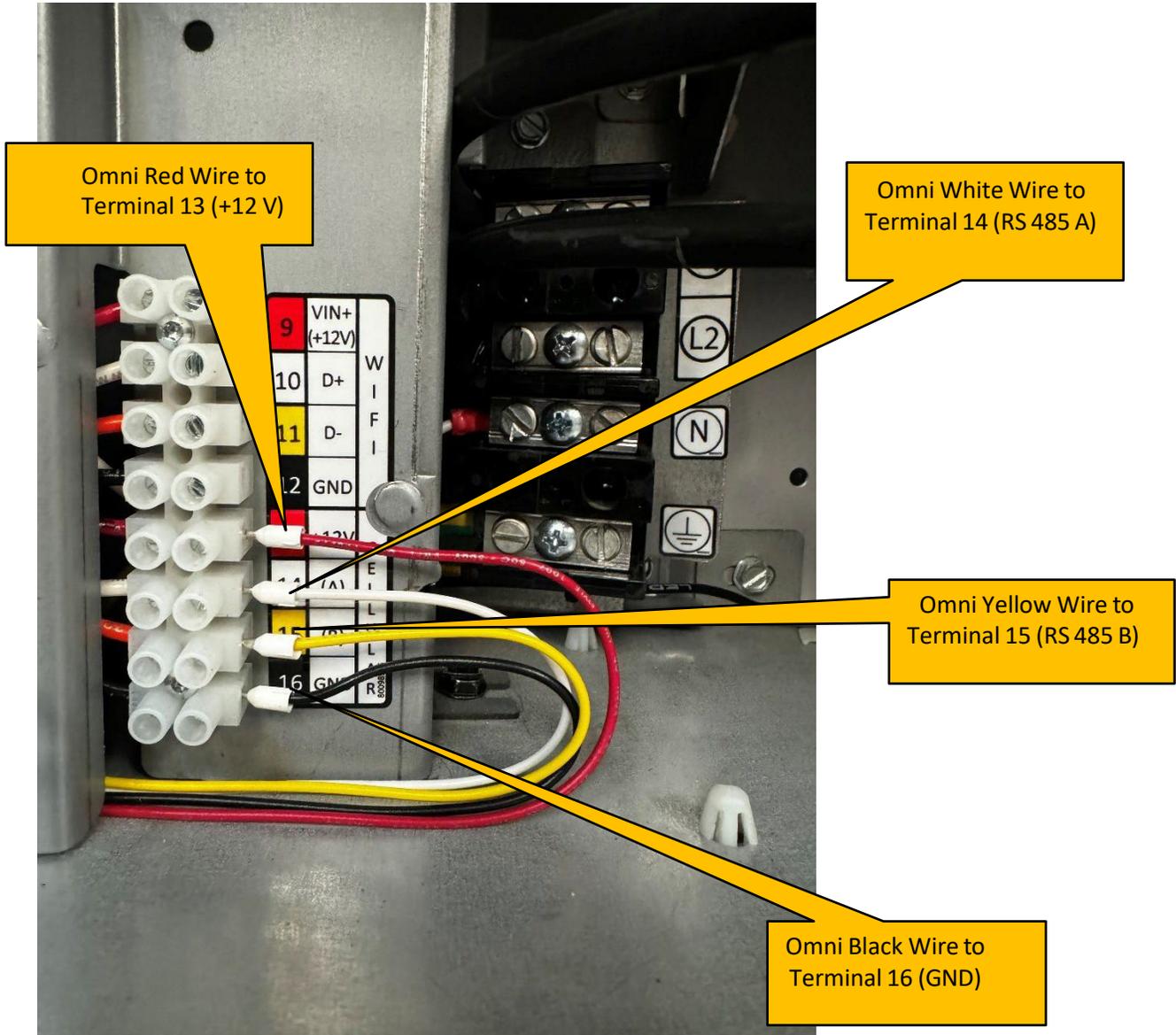
TrueGuard-2 Wiring Table		
OMN WIRE	FUNCTION	TERMINATION
Red	Power In (Generator Battery +)	13
Black	Ground	16
White	RS 485 A	A
Yellow	RS 485 B	B
White/Yellow	DR Purpose	Relay (NC/NO)
White/Brown	DR Purpose	Relay GND

*If connections already exist on these terminals, contact OmniMetrix Technical Support before continuing installation.

Briggs and Stratton Fortress GC 1031 / 1032 Controller Interface shown below:



While it is possible to wire to the back of the control, it is easier to connect as follows:



Connect the Omni White wire to Terminal 14 (RS 485 A) and the Omni Yellow wire to Terminal 15 (RS 485 B). Connect the OmniMetrix Red wire to Battery + (Terminal 13), and the OmniMetrix Black wire to Battery GND (Terminal 16) to the Battery terminals on the Battery Charger. This is unswitched and unfused, so a blown generator fuse won't take down OmniMetrix connectivity.

Once the tech on site has the Omni unit wired up with the gen, go and login to OmniView. Look for the omni unit using the Unit ID. As the unit has not been activated yet, the unit might be under “Show Inactive Units”. Now, ask the tech on site to do a test run of the generator. When the tech is doing the test run, you should be able to see changes on OmniView such as an active Alarm (Red X under Alarm) and when you click on that active alarm you should be able to “Generator Running” under Nodes in Active State.

For Self-Installation:

1. Logon to [OmniView2.0](#) and search for desired Unit ID
2. Click the Unit ID button
3. Click CONFIGURE then select Pre-Install
4. Fill out the Pre-Installation form and click “Submit Form”
5. Install monitoring unit on generator
6. Return to the OmniView main page
7. Select Unit ID > click CONFIGURE tab > then Installation
8. Complete form including the “Description” field then click the Update Raw Data button
9. The three Red Icons “Gen ON/OFF Received, Acceptable Control Monitor Type, and Signal Strength” should turn green
10. Click Submit Finished Install once all fields are green or Save Install if monitoring device will be deployed at a later time
11. After completion the Email ID should state Finished install, and an email will be sent stating the Unit ID is now active.

A view of the Self-Install page:

The screenshot shows the 'Machine Installation Form' in the OmniMetrix web application. The form is divided into several sections:

- Selected Unit:** 61949-61949
- Control Type:** Briggs & Stratton GC 1031 / 1032
- Monitor Type:** TG-2 Hardwire LTE
- Wiring:** Modbus
- Battery Voltage:** 12V
- Fuel Type:** Natural Gas
- Raw Data:** A text area with a message: "Last time raw data was received by the server: 02/25/2023 04:33 PM". Below this are three buttons: "Gen On/Off", "Acceptable Monitor Type", and "Signal Strength".
- Optional Features:** A list of checkboxes: Fuel sensor, Automatic transfer switch, Current relay switch, Current transfer switch, AC Detector, Power meter, and Other.
- Contact Information:** Fields for Contact name, Contact no, and Contact email, all marked as "* Required".
- Description:** A field marked as "* Required".
- Buttons:** "Submit Finished Install", "Failed Install", and "Save Install".

The sidebar on the left contains the following menu items: Dashboard, Configuration, Accumulation Items, Command Buttons, Commands, Company Info, Calculated Parameters, Alert Edits, Analogs, Display Items, Mirrored Units, Installations, Pre Installation, Hero installations, Edit Monitor, Users, Machine Recipients, Parameters, Footnotes, and First Page Parameters.

If you have any questions, please call OmniMetrix Tech Support on 770-209-0012 or email at techsupport@omnimetrixconnect.com.