TrueGuard 2™ Generac E Panel Installation Guide

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

1. Unpack the monitor and antenna. The data/power cable will be attached to your 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. Locate the area behind the door where two panels come together in the housing. Peel the weather stripping down and route the antenna between the weather stripping and the housing. Place the wire for the antenna in the slot between the two panels and replace the weather stripping. Attach the antenna vertically to the top of the enclosure. 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. Program the unit according the Programming Instructions on the following page.
4. Route the data/power cable to the interior of the generator control housing on the right-hand side.
5. The monitor connects to the Generac E Panel using the wiring definitions as shown in **Table 1.**
6. Temporarily mount the monitor to the side of the control and attach the antenna cable to the front of the monitor, and tighten thumb tight.
7. Allow 15 minutes for the monitor to log into the network and then call OmniMetrix Tech Support 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.
8. Reassemble the controller and attach the monitor, via the magnetic feet, to the top of the control panel 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*.

Data/Power Cable

Generac E Panel Controller

Generac E Panel Wiring Instructions		
OMN WIRE	FUNCTION	TERMINATION
Red	Power In	TB1 – 13/218
Black	Ground	TB1 - 0
Orange	Generator Running	TB1 – 14/219
Blue	Common Alarm	TB2 - Relay 1 Normally Open
Gray	High Coolant Temp	TB2 - Relay 3 Normally Open
Violet	Not in Auto	TB2 - Relay 2 Normally Open
White/Yellow	2-wire start	TB1 - 56
White/Brown	GND for 2-wire start	TB1 - 0

Table 1 – E Panel Wiring Table

E Panel Programming Instructions

Programmable Relays:

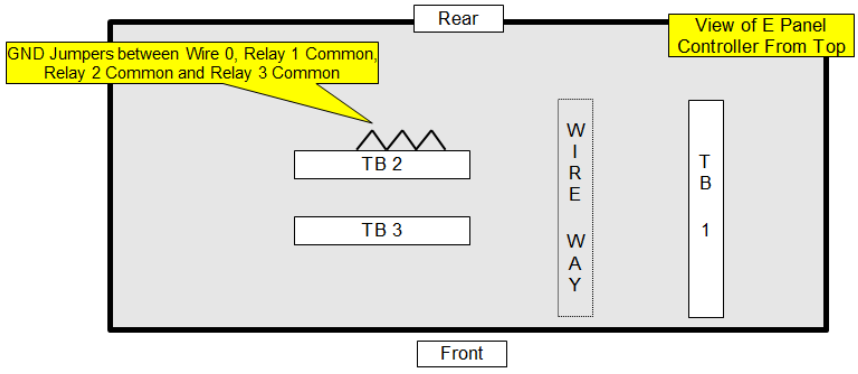
1. Press the left or right arrow key until the display reads **'Parameter Entry',** and press **ENTER**.
2. Enter your **password** and press **ENTER**. The password comes from the factory set to 000000. If this does not work, call OmniMetrix at 770-209-0012 for a workaround.
3. Use the left and right arrow keys to find the **'Digital I/O Menu'**.
4. Use the up and down arrow keys to locate **'Output 1 Function'**. The bottom line of the display will read the current setting. Press **ENTER**.
5. Use the up and down arrow keys to scroll through the list until **'Common Alarm'** is displayed in the bottom line. Press **ENTER.**
6. User Output #1 is now programmed to become active (relay energized) on any Common Alarm.
7. Press **RESET**. This exits the programming mode and returns back to the parameter entry screen.
8. Repeat for User Output #2: Not in Auto.
9. Repeat for User Output #3: High Coolant Temp.

Relay 1: Common Alarm (Blue Wire) Normally Open, located on TB2 (Program Relay #1).

Relay 2: Not in Auto (Violet Wire) Normally Open, located on TB2 (Program Relay #2).

Relay 3: High Coolant Temp (Gray Wire) Normally Closed, located on TB2 (Program Relay #3).

All connected to ground.



Generac E Panel Relay Board

LED Behavior:

The BLUE LED will illuminate at boot up (stay on). The LED will start blink rapidly, on/off every 1/2 second, once the modem is connected to an available tower. The LED will begin to blink more slowly, three seconds on, three seconds off, once the modem has connected to the OmniMetrix server. Note: The BLUE LED is an indication of network service. If it continues to stay illuminated (on), please check the SIM card, antenna, and signal strength.

The Red LED illuminates approximately 20 seconds after the Blue LED illuminates. A solid Red LED indicates the unit is trying to log into our server.

After approximately 20 seconds, Red LED turns off and the Green LED illuminates for 3 seconds. This indicates the unit has logged into our server.

The Red LED or Green LED flashes after login: Short Green LED flashes indicate the monitor is getting data; Long flashes of the Red LED indicate failure.

Signal Strength: LED signal strength indication is provided at login and routinely during operation, using the Red & Green LED's as follows:

1. The Red & Green LED's flash rapidly for 2 seconds to indicate the beginning of the "Signal Strength" routine.
2. Next, the LED(s) will stay fully illuminated 2 seconds to indicate the current signal strength:
   a. Solid Red LED only = below 10
   b. Solid Red & Green LED's = 10~60
   c. Solid Green LED only = greater than 60.
3. To complete the Signal Strength cycle, the Red & Green LED's flash rapidly again for 2 seconds, then stop (end of cycle).

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