TrueGuard-PRO™ Generac E Panel/E Panel with Relay Installation Guide

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. 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** (next page); and to the Relay Kit as shown in **Table 2**.
6. Temporarily mount the monitor to the side of the control and attach the 25 pin cable to the front of the monitor and tighten screws. 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 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.
9. 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

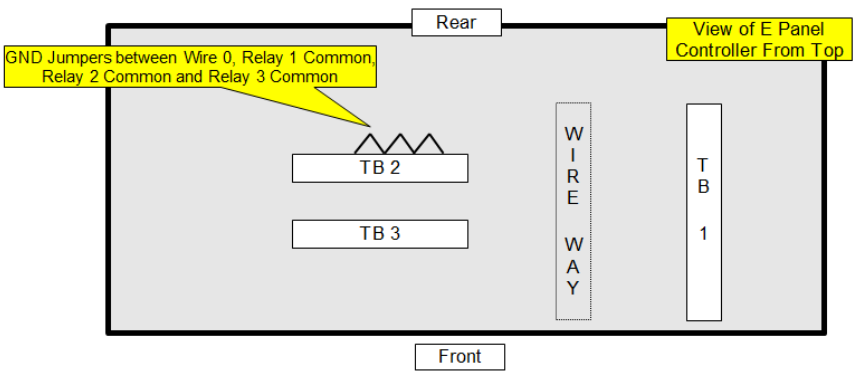
Generac E Panel Controller

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
Violet	Low Fuel	TB2 - Relay 3 Normally Open
Pink	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

Generac E Panel w/Relay Kit Wiring Instructions			
OMNI WIRE	FUNCTION	TERMINATION	Dip Switch
Red	Power In	TB1 – 13/218	
Black	Ground	TB1 - 0	
Orange	Generator Running	Relay Kit 6 Normally Closed	S2 – 4 ON
Blue	Common Alarm	TB2 – Relay 1 Normally Open	
Yellow	Overcrank	Relay Kit 1 Normally Closed	S1-2 ON
Brown	Overspeed	Relay Kit 2 Normally Closed	S1-3 ON
Violet	Low Fuel	Relay Kit 5 Normally Closed	S1-10 ON
Gray	High Coolant Temp	Relay Kit 4 – Normally Closed	S1-5 ON
Pink	Not In Auto	TB2 – Relay 2 Normally Open	
Tan	Oil Pressure Low	Relay Kit 3 Normally Closed	S1-4 ON
White/Yellow	2-Wire Start	TB1 -56	
White/Brown	Ground for 2-Wire Start	TB1 - 0	

Table 2 – E Panel w/Relay Kit 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: Low Fuel.

Relay 1: Common Alarm (Blue Wire) Normally Open, located on TB2 (Program Relay #1).
Relay 2: Not in Auto (Pink Wire) Normally Open, located on TB2 (Program Relay #2).
Relay 3: Low Fuel (Violet Wire) Normally Open, located on TB2 (Program Relay #3).
If Low Fuel is not applicable:
Relay 3: Low Oil Pressure (Tan Wire) Normally Open, located on TB2 (Program Relay #3).
All jumpered to ground.

Generac E Panel Relay Board

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