



Installation Instructions

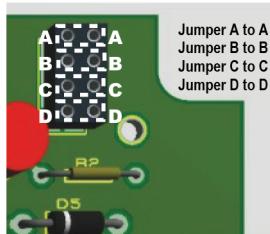
The GLD-24 requires a 24 Volt AC input to power the device and sample the AC waveform to determine if incoming power is derived from a generator or utility source. This voltage may come from any source within the electrical system as long as the input is within 18 to 30 volts AC. The GLD-24 comes preset to work with most generator and utility systems. However because there are always circumstances outside of normal, additional settings are available to accommodate most conditions. Please contact technical support for additional information.

Two form "C" Normally Open and Normally Closed contacts are provided for control circuits up to 250 volts and 5 amps or less. The relays will be de-energized when utility voltage is present and will remain energized when generator voltage is detected. LED 1 will remain illuminated whenever relay 1 and 2 are energized.

A power outage must occur for the detection cycle to begin. Upon power up the GLD-24 will energize relay 1 and 2 and begin to analyze the AC sine wave to determine if the power is supplied by the generator or utility source. When utility power is detected LED 2 will illuminate and turn the relay off after a 2-3 minute delay. When generator power is detected LED 2 will illuminate red and the relay will remain off. The GLD-24 will continue to analyze the AC power source until utility voltage is detected. After detecting utility voltage LED 2 will turn green, after a 2-3 minute delay the relay will turn off and LED 1 will go off indicating the relay is now off and the load restored. The GLD-24 will now enter sleep mode and will remain **INACTIVE** until the next power outage.

NEW FUNCTION: Under Frequency Load Management

The GLD-24 now incorporates generator load shedding control using under-frequency detection. When the under frequency function is selected, and generator voltage is detected, the load will be restored after about 4 minutes on generator power, LED 1 will turn off indicating the load is restored and LED 2 will blink RED in one second intervals indicating under frequency mode is active. The GLD-24 is designed to analyze the severity of the overload condition and apply the most effective delay time to minimize disconnecting loads too soon to reduce premature load shedding and to disconnect excessive loads before the generator overloads and shuts down. Should an under frequency event occur, the load will be disconnected for 5 minutes. There are two settings designed to accommodate different load shedding scenarios and load connection types. Mode "A" is most typically used for inductive loads and Mode "B" would be typically used for resistive loads. The Under Frequency Load Management feature is designed for use with Air-Cooled Generators only.

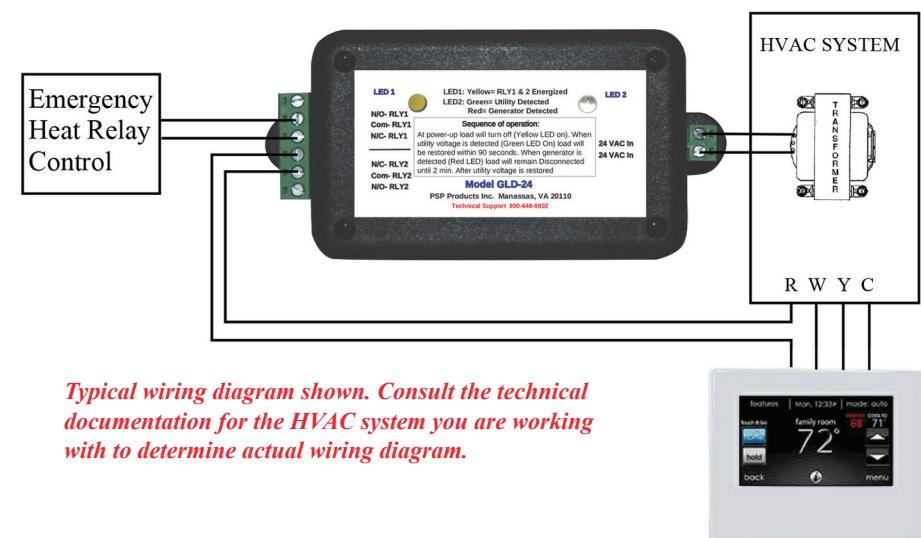


Load Drop- All jumper settings are open (Default Setting)

Load Management- Under Frequency Detect settings

Mode A: short jumpers C-C Example: inductive or motor loads

Mode B: short jumpers C-C & D-D Example: non-motor loads that have resistance, like heating loads.



Technical Support Call 800-648-6802 • After Hours Support: 443-600-3403



Important: Risk of electrical shock.

This device should only be installed by qualified personnel.