

SmartPulse™ – HRG OEM Kit



Line to ground faults are the cause of 98% of all plant electrical failures. With increased attention industry-wide to lowering the potentially deadly effects of arcing faults, tackling the problem at its source remains the surest method of increasing your network’s reliability. Downtime costs in both productivity and profits, and Post Glover’s SmartPulse keeps plants running 24/7/365.

Post Glover’s SmartPulse is available in an OEM kit suitable for mounting in low or medium voltage switchgear cubicles or standard MCC’s. Its ease of installation, top-level factory support and overall superiority make this the easy choice when the customer requires a pulsing system for complete ground protection.

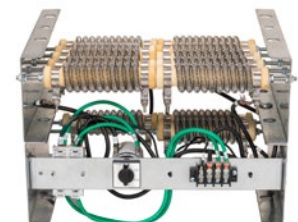
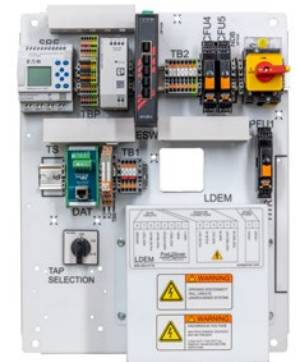
Why You Should Use HRG	
Protect Equipment	Limit ground fault current to less than 10 A, reducing damage and stress to equipment and power system components
Reduce Down Time	Process equipment can continue to operate in the event of a line to ground fault, increasing profitability
Increase Safety	Virtually eliminates flash hazard possibility in the event of a potential arcing fault
Fast Fault Location	Pulsing circuit and optional ammeter allow for easier fault location, saving time and frustrations

Features of the SmartPulse OEM Kit

Post Glover’s SmartPulse is designed to simplify installation and use of High Resistance Grounding in your facility. Select the proper fault current level using a selector switch instead of moving wires. The digital display features touchscreen capabilities and a guided start-up procedure to assist unfamiliar customers. The SmartPulse is engineered, built and tested to be easy to install and provide the most comprehensive feature set available.



Why you should choose SmartPulse	
Neutral Path Monitoring	Continuous neutral path and resistor monitoring protects users from undetected resistor failures that can compromise safety. SmartPulse’s redundant neutral path monitoring guards against a failed neutral (open or short circuit) compromising the safety of your system or personnel.
Feeder Monitoring up to 16 Feeders	Finding a pulse can be challenging with installations with buried cable or hard to find measurement points. Feeder monitoring makes it safer and faster to locate faults.
Current and Voltage Monitoring with Optional Alarm Settings	Alarm signals can be set for overvoltage or overcurrent as well as an open neutral to allow for tripping or alarming as needed. This flexibility allows for monitoring of low-level faults, which can be caused due to failing insulation or non-essential equipment.
Data Logging	Track alarms and events even with no one present, allowing for easier investigation into existing or possible future faults.
Real time Communications	Communication of real time network data over Modbus allows for critical status updates to reach the right people when they need them. The ability to incorporate the HRG component into plant-wide monitoring creates a safer, more productive environment for all.
Automated Charging Current Measurement	Choosing the proper fault current level with HRG is critical to its success. SmartPulse calculates it for the user as part of its self-guided commissioning package to ensure the system is properly calibrated for optimal results.



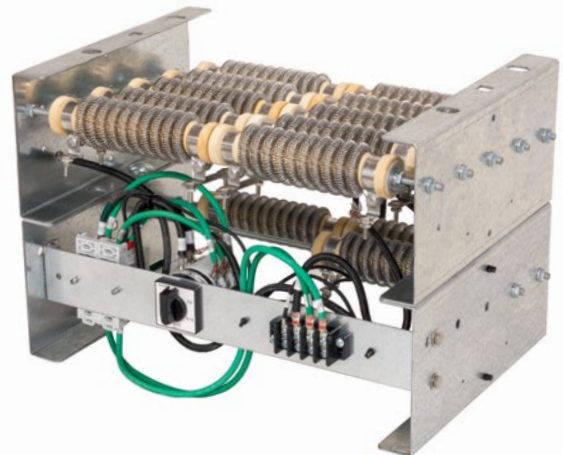
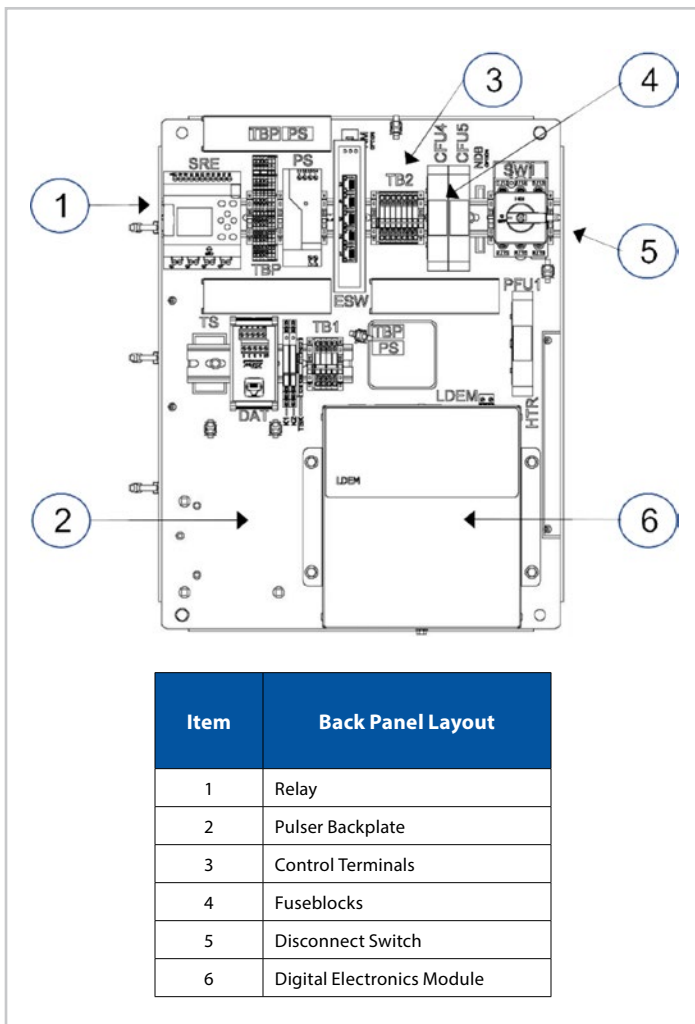
The OEM kit, designed for use at 600 volts and below, consists of three parts: an HMI unit, the Internal Control Plate and an Enclosed Resistor suitable for remote mounting.

The HMI unit is the only component to be mounted in the external door of the breaker compartment. The cutout required measures roughly 5 ¼" x 7 ½" (exact dimensions provided on supplied design specific drawings). The 7" touchscreen is held in place with mounting screws that cinch to the door.

Cabling between the HMI module and the controller is factory supplied. All customer connections are made on the supplied terminal strip. The controller is pre-wired to the strip, simplifying installation and limiting potential mistakes.



The grounding resistor itself is shipped loose and suitable for mounting in existing cabinets or on top of the switchgear cabinet. The standard resistor offering is Open Frame, but NEMA 1 and NEMA 3R options are available. Enclosed options are mill galvanized steel with an ANSI-61 gray powder-coated finish but other colors or stainless steel are available upon request.



Open Frame: 17.5"W x 12"L x 12"H

NEMA 1: 29"W x 18"L x 15"H

NEMA 3R: 29"W x 18"L x 22"H

Save time and money using Post Glover's pre-engineered, easy to install OEM kit. As the industry's leading experts in high resistance grounding, we are constantly pushing the technology and product forward. Trust Post Glover to deliver faultlessly.