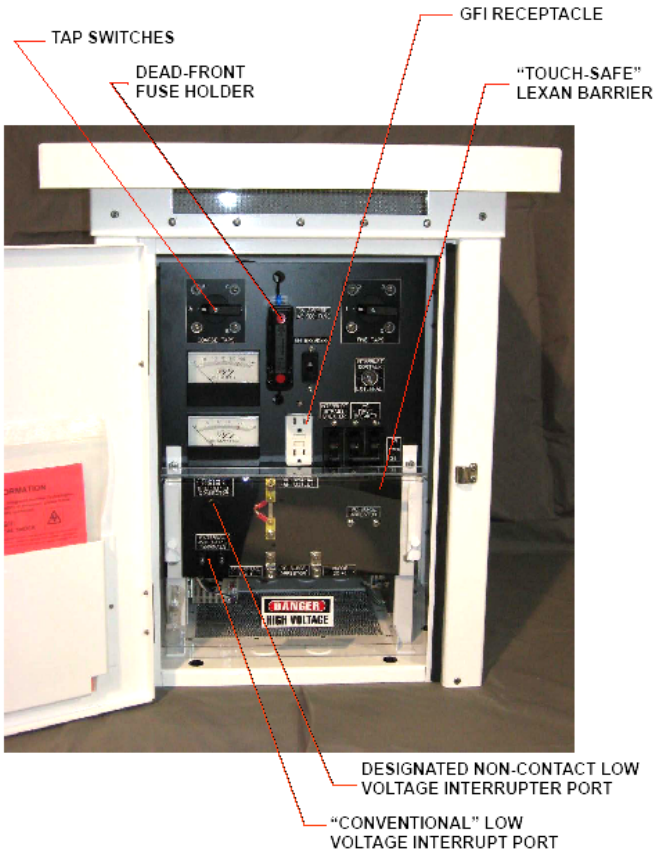
Cathodic Protection Rectifier Safety Enhanced Features

Integrated Rectifier Technologies provides our Advantage Series of rectifier with the electrical safety feature requirements needed in many of today's applications. Utilizing the existing design platform of our Advantage Series Rectifier plus the addition of quality safety enhancements allow for "Touch Safe" access to the front panel of the Rectifier.

"Touch Safe" Features:



CATHODIC RECTIFIER EQUIPPED WITH ELECTRICAL SAFETY ENHANCEMENTS

- Available in our Advantage line of Air Cooled enclosure (Cabinet rating and optional construction dependant on application)
- Tap Switch Adjustment allows for adjustment of the rectifier output without the requirement of turning off the rectifier power while increasing/decreasing output
- Dead Front Fuse Holders allow for safe fuse removal and insertion. The holders larger contact surface allows for cooler running and superior electrical properties
- GFI Receptacle c/w over load breaker protection allows for safe power access to run external interrupters and other logging devices
- "Touch Safe" Lexan Barrier covers all the exposed DC components located on the front panel. The slotted attachment brackets offers a simple means for removal and/or replacement of the barrier
- Interruption Ports/ Terminals allow for easy Interrupter connection to the rectifier using external/ portable Interrupters without the need to disconnect any rectifier wiring

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Detailed Safety Feature Descriptions

Tap Switch Adjustment:

Tap Switches provide a safe alternative to manual rectifier adjustment tap bar or terminals. The switch wiring connections are contained behind the rectifier front panel. The adjustment switch allows “on the fly” adjustment of the rectifier outputs without the necessity of turning the rectifier power on and off during adjustment.
Tap Switch Adjustment eliminates the possibility of loose connections following output setting adjustment. A common problem found in tap or terminal adjustment where the set screw or nut is not adequately tightened causing the connection to arc/overheat and eventually burn the panel and/or wiring.
Tap switch Adjustment ensures all phases adjust equally in three phase rectifiers

Dead Front Fuse Holders:

Dead Front Fuse holders are fully shrouded and designed to accept standard Class C or CA type fuses. The fuses bolt into the handle, which serves as an insertion and withdrawal tool, as well as covering all live parts when the fuse is being installed or withdrawn. These holders are an excellent solution to the problems of space and operator safety.

•True Dead-front construction increases operator safety
•Easy grip handle for secure withdrawal and insertion of fuse
•Fully plated contacts for low resistance and cool running

GFI Receptacle

On Board AC Power access/availability using an approved GFI receptacle device combined with overload breaker protection.

Touch-Safe Lexan Barriers:

LEXAN® Polycarbonate sheet is an uncoated sheet which is excellent for general purpose use where impact strength is needed. In addition to its inherent strength, LEXAN® sheet provides built in forced entry protection and can be easily fabricated to meet design requirements.

FEATURES:
•Durability, 250 times stronger than glass. 30 times stronger than acrylic
•No cumbersome nuts or bolts required for attachment
•Lightweight
BENEFITS:
•Virtually unbreakable. Eliminated replacement cost due to breakage.
•Requires less structural support

Rectifier Interruption Ports /Terminals

If factory installed “Interrupt Device” is not a viable option, the use of 12 VDC (maximum) interrupter ports or terminals allows for safe and easy access for AC interruption of the rectifier.

Designated non-contact connector ports specific to certain Interrupter Models will eliminate all physical contact with the rectifier circuitry.

Low voltage interrupt terminals allow all for all generic interrupter types to connect to the rectifier wiring circuit allowing for interruption of the rectifier output without having to disconnect any rectifier wiring.