

# **Protective Relay Panels & Systems**



**Power Protection,  
Monitoring and Control**

## Relay Panels for Power Protection and Control

Relay Panels from Carter & Crawley improve reliability and provide the ability for communication and control from the control center to the site. With over 40 years of excellence in relay panel design, construction, fabrication, testing and installation, Carter & Crawley offers Quality and Reliability, second to none.



Relay Panels for Power protection, control, metering and communications applications;  
Generator and Transformer Protection  
Capacitor Bank Protection and Control  
Multiple Feeder Protection  
Bus Differential Protection  
Motor Protection  
Controller and Breaker Management  
Panels for Network Protection and Synchrophasors  
Transmission Line Differential and Phase Comparison Protection



### Manufacturing Tolerances

Our in-house laser cutting equipment provides precision fabrication with tolerances up to .005". All angles, cut-out openings and clearances are checked and inspected to exacting quality assurance standards.

Certified to ISO 9001 standards, our in-house fabrication, painting and wiring methods continue a tradition of value and craftsmanship.

### Paint Quality & Durability

We control the quality process from in-house fabrication to our own paint shop, so that all cut edges are painted for a long-lasting and attractive finish.

## Features, Benefits and Attention to Detail



### Wire Routing

Properly trained and supported, a neat harness lowers installation costs and is easier to troubleshoot and maintain in the field. Precise wire routing, identification and attachment provide traceability and a clean appearance.



### Identification

Whether you want to see the destination or the origin or both, our pre-printed heat shrink wire markers are clear and easy to read.



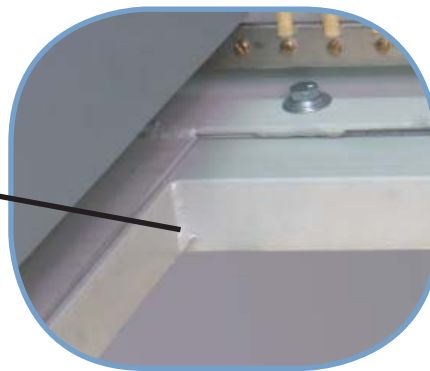
### Terminations

UL and CSA certified crimped terminations are ensured on insulated or non-insulated terminations with regularly adjusted, ratcheted hand tools.



### Welded Channel Frames and Lifting Eyes

Rugged Construction throughout each panel will ensure a solid and reliable design that withstands the rigors of your jobsite applications.



### Smooth Cable Entry

Unique "coined edge" for cable openings eliminates troublesome bushings and leaves a smooth edge for cable entry.

## Protective Relay Panels and Systems

Relay Panel Quality and Reliability.....fully-engineered for your project or custom-fabricated to your design.

### *Also available*

#### Power Distribution Centers



Drop in enclosures for substations save time and money and accelerate project schedules. Carter and Crawley provides fully pre-wired systems in walk-in enclosures for T&D and Control.

Trained technicians complete interconnect wiring and testing in a coordinated systems approach.

From the initial engineering design to fabrication and assembly, these systems can be installed at your facility by our experienced team.

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**CARTER & CRAWLEY, INC.** Quality electrical engineering and systems since 1967:  
Carter and Crawley is certified to ISO 9001:2000 standards and is a division of the  
AZZ Electrical Products Group.

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