



Upgrading Source-Transfer Controls in S&C Metal-Enclosed Gear

S&C Featured Solution: Micro-AT® Source-Transfer Control

Location: Midwest United States

Customer Challenge

Anticipating users of previous-design Type AT Source-Transfer Controls would want to avail themselves to the enhanced reliability and latest in technology and features offered by the Micro-AT® Source-Transfer Control, S&C developed a retrofit version of this device. The retrofit version is suitable for upgrading nearly all source-transfer gear manufactured between 1982 and 1992.

The microprocessor-based Micro-AT control, in conjunction with power-operated S&C Mini-Rupter® Switches or S&C Alduti-Rupter® Switches, provides automatic source transfer in common-bus and split-bus primary selective systems. In addition to front-panel programming and a large liquid-crystal display, the Micro-AT control offers such desirable features as:

- A detailed event log, which allows the user to readily analyze system events
- An optional communications card, which permits uploading of events and control settings to a personal computer, as well as downloading of the user's standard operating parameters.

Such features were unavailable in the previous-vintage controls.



S&C Solution

A correctional facility in the Midwest identified a number of source-transfer S&C Metal-Enclosed Gear installations where the enhanced reliability and new features of the Micro-AT control would be particularly desirable. S&C's Field Services team verified each installation was suitable for upgrading and then developed a custom bill of material for the retrofit kit needed at each installation.

In addition to the Micro-AT control, a retrofit kit typically includes:

- Mounting brackets
- Wiring harnesses
- A control-voltage seeking relay
- Access covers
- Instructions
- Wiring diagrams

The retrofit kits were shipped to the customer's designated location in advance of the arrival of an S&C Field Service Specialist.

The S&C Field Service Specialist, working with a two-person customer crew familiar with the procedure, upgraded each installation in less than one business day. An outage generally isn't needed to perform an upgrade unless the gear is to be fitted with features not originally furnished (for example, current sensors on the sources in instances where overcurrent lockout is now desired).



Results

The upgrades were successfully completed. Not only does the customer now benefit from the latest in microprocessor-based technology (which, by the way, is Y2K compliant), but also from the Micro-AT control's inherent flexibility. Additional features can be provided at any time by adding or changing out circuit cards.

Because the upgrades were performed using the services of an S&C Field Service Specialist, S&C provided a three-year extension to the standard two-year warranty on the retrofit kits—for a total of five years' coverage.