Serving the Electrical Utility Industry Since 1920
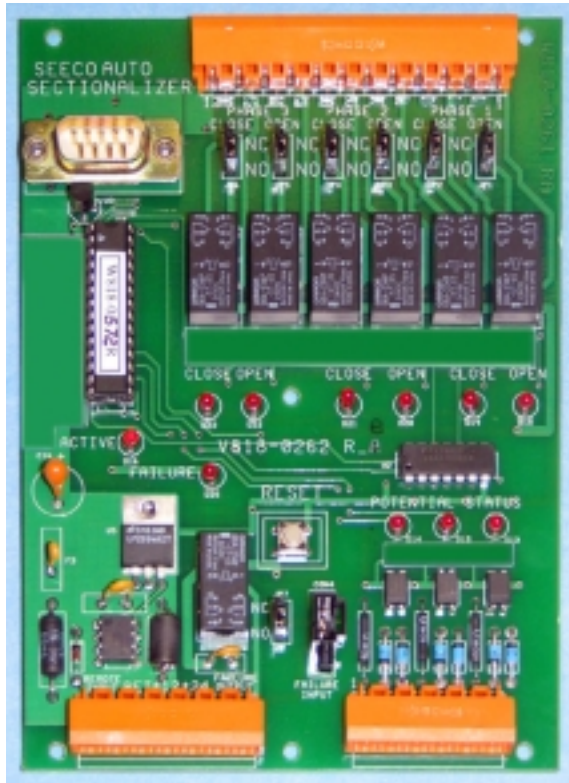
Auto-Sectionalizing Board

Standard Features

The ASB comes complete with LED status indication lights for presence of potential, switch operation to open, switch operation to close, ASB active and failure mode. Plug-in style connectors are provided for voltage inputs, open/close outputs, remote reset and power.

Other standard features include a system reset button, open and close control relays and shunts, a nine pin connector, a null modem cable and a setup disk for communication with Windows® Hyper-Terminal.

The board design is solid state with integrated circuit technology, surface mount construction and micro processor control of all board functions.   The board is designed for high reliability in a range of challenging conditions, including temperature ranges of $+85^\circ$C to -40°C.

Type: ASB

Description

The Auto-Sectionalizing Board (ASB) provides simple, user configurable control logic for the independent and auto-matic operation of motor operated pole top switches. The ASB will initiate motor operation of the associated switch (open or close) based on the presence or absence of voltage, with or without time delay. Voltage indication is provided by a separate voltage sensor, potential trans-former or similar device.

The ASB can control up to three switches in close proximity. The default mode of switch operation is independent and automatic, but the ASB can also be used in conjunction with an RTU as part of a larger, integrated and remotely con-trolled automation scheme. Field configuration requires no programming for the standard functionality. With factory modification, the ASB can be used for more complex automatic schemes requiring timing and sequential coordination between multiple switces and breakers.

Application

Frequently used for automatic switching between preferred and secondary sources (auto throw-over) in the event of loss of potential on the preferred source.   Can also be used as part of a larger automatic fault isolation scheme with multiple switches in series. For questions about the application and use of the ASB for your automation project, please consult the factory for assistance.

System Attributes & Benefits

- Rapid implementation - Provides immediate automation capabilities without the technical and communication issues associated with SCADA integration
- Easily configurable - No programming required for standard functionality
- Economical - Lower cost to purchase, install and operate than SCADA solutions
- Fully compatible - Works with all brands of motor operators, disconnect switches and voltage sensing devices
- Robust - Can be incorporated into more complex automation or SCADA applications as system requirements change
- 24/7 reliability - Controls your critical switching needs automatically without human intervention

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1

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Setup and Testing

All setup parameters are entered and testing functions accessed through Windows® Hyper-Terminal. Laptop configuration for Hyper-Terminal communication is simplified through the use of the Setup Disk provided. Installation is accomplished by dragging the contents of the diskette to the Desktop.

Only three operating parameters must be specified to control each switch: (1) required change in potential to trigger operation (gain or loss), (2) direction of switch operation (open or close), and (3) time delay in seconds. For security and safety, all setup parameters are stored in EEPROM to prevent data loss in the event of power failure.

After operating parameters have been entered, testing can be done through Hyper-Terminal to confirm that the resulting switch operation is what was intended.

Null Modem Cable