SSM-LE Series

SIGNAL SEQUENCE MONITOR UNITS FOR NEMA CABINETS

Full Intersection LCD display and event log recording capabilities equip technicians with detailed and accurate information to ensure cabinet malfunctions are detected, diagnosed, and repaired with confidence.

FEATURES

- NEMA TS1 Standard
- Full Intersection & Status Display
- Event Logging
- Signal Sequence History Logs
- EDI RMS-Engine

HIGHLIGHTS

- Configuration Options
- Communications to PC or Remote Traffic Management Center
- Flashing Yellow Arrow PPLT
- LEDguard®

NEMA CABINET COMPATIBLE

NEMA TS1 Standard

The SSM-LE series meets all specifications of NEMA Standard TS-1 1989 R2000, Part 6. Basic fault coverage includes Conflict, Red Fail, CVM, 24V-I and 24V-II. Dual Indication Monitoring detects simultaneous active signals on a channel. Clearance Monitoring assures proper sequencing of signals and a minimum yellow clearance interval. AC Line Monitoring responds to low AC Line voltages as well as interruptions.

Full Intersection & Status Display

High contrast, large area Liquid Crystal Displays (LCD) show full intersection status with an active Red, Yellow, Green, and Walk indicator for each channel. Separate indicators identify channels involved in the fault.

Event Logging

The SSM-LE series maintains a nonvolatile event log recording the complete intersection status as well as previous fault events, AC Line events, configuration changes, monitor resets, cabinet temperature and true RMS voltages for all AC inputs. A real time clock time stamps each log event with time and date.

Signal Sequence History Logs

The five Signal Sequence History Logs stored in nonvolatile memory graphically display up to 30 seconds of signal status prior to each fault trigger event with 50ms resolution to ease diagnosing of intermittent and transient faults.

EDI RMS-Engine

A DSP coprocessor converts ac input measurements to True RMS voltages, virtually eliminating false sensing due to changes in frequency, phase, or sine wave distortion.

Configuration Options

Front panel options include GY Dual Indication, LEDguard, +24V and CVM Latching, Red Fail Walk Disable, External Watchdog input, CVM Log Disable, and FYA Mode.

Communications to PC or Remote Traffic Management Center

EIA 232 or Ethernet port (ip models) provides access by a local PC or remote TMC running ECcom Windows based software for status, event log review, and archival.

Flashing Yellow Arrow PPLT

The SSM-LE series supports MUTCD Flashing Yellow Arrow PPLT operation with two different modes for TS-1 cabinet configurations.

LEDguard®

This EDI innovative signal thresholding technique can be used to increase the level of monitoring protection when using LED based signal heads.

Model Options

Model	Channels	Port
SSM-6LE	6	EIA 232
SSM-6LEip	6	Ethernet Port
SSM-12LE	12	EIA 232
SSM-12LEip	12	Ethernet Port