SmartMonitor

MMU-16LEip SERIES

NEMA LCD MALFUNCTION MANAGEMENT UNIT WITH 10/100Mbps ETHERNET PORT

Whether you're a NOVICE or EXPERT Signal Technician, wouldn't it be great if you could:

- ❑ Use a built-in SETUP WIZARD to ***quickly and accurately configure*** the Signal Monitor to the exact requirements of the cabinet and intersection?
- ❑ Use a MENU DRIVEN LCD interface to ***view*** vital cabinet operational details such as field signal voltages, historical event logs, and monitor configuration data?
- ❑ Use a built-in DIAGNOSTIC WIZARD to ***automatically diagnose*** cabinet malfunctions and ***pinpoint*** faulty signals?

If your answer is Yes, the MMU-16LEip *SmartMonitor*™, is for YOU!

MMU-16LEip *SmartMonitor* ENHANCED FEATURES

Nema TS2-2003 Standard: The MMU-16LEip *SmartMonitor*™ meets all specifications of the Nema Standard TS2-2003 while maintaining downward compatibility with existing Nema TS1-1989 Traffic Control Assemblies.

Standardized Communications: Real-time SDLC communications with the Controller Unit exchanges field input status, Controller Unit output status, fault status, MMU programming, and time and date.

Full Intersection & Status Display: Two high contrast, large area Liquid Crystal Displays (LCD) continuously show full RYG(W) intersection status. A separate graphic LCD provides a menu driven user interface to status, signal voltages, configuration, event logs, and the Help system.

Event Logging: A time-stamped nonvolatile event log records the complete intersection status as well as AC Line events, configuration changes, monitor resets, temperature and true RMS voltages.

Setup Wizard: Use the built-in Setup Wizard to configure the Nema Enhanced settings of the *SmartMonitor*™ by answering a short series of questions regarding intersection design and operation.

Diagnostic Wizard: and Help System The Diagnostic Wizard *automatically pinpoints* faulty signals and offers trouble-shooting guidance. The integrated Help System provides context sensitive operational assistance.

TS-1 Type 12 with SDLC Mode: The MMU-16LEip can be configured to operate with the Port 1 SDLC function and Diagnostic Wizard enabled in a TS-1 twelve channel cabinet with no cabinet wiring changes.

Program Card Memory: Enhanced settings of the MMU-16LEip are stored in nonvolatile memory on the EDI Program Card. Moving the Program Card to another MMU-16LEip automatically transfers all settings.

Signal Sequence History Log: The five Signal Sequence History logs stored in nonvolatile memory graphically display up to 30 seconds of signal status prior to each fault event.

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

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.

ECcom™ PC Software: Access to the MMU-16LEip by PC is provided by the EDI ECcom™ Windows based software for status, event log retrieval, configuration, and data archival via a 10/100Mbps Ethernet port.

Flashing Yellow Arrow PPLT: The *SmartMonitor*™ supports MUTCD Flashing Yellow Arrow PPLT operation with two different

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modes for either TS-2 or TS-1 cabinet configurations.