



MMU-16E

NEMA MALFUNCTION MANAGEMENT UNIT

INTRODUCING A NEW STANDARD OF SAFETY
AND DIAGNOSTIC CAPABILITIES

The EDI MMU-16E meets all specifications of NEMA Standard TS2-2003, Section 4 (MMU), while maintaining downward compatibility with existing TS1-1989 Traffic Control Assemblies. The MMU-16E incorporates many of the features of a TS1-1989 Conflict Monitor Unit along with additional enhanced monitoring, display, and trouble shooting functions.

MMU-16E ENHANCED FEATURES

- Nema TS2-2003 Standard:** The MMU-16E meets all specifications of the Nema Standard TS2-2003 while maintaining downward compatibility with existing Nema TS1-1989 Traffic Control Assemblies.
- Standardized Communications:** Type 16 real time SDLC communications with the Controller Unit exchanges field input status, Controller Unit output status, fault status, MMU programming, and time and date, along with a watchdog function for Port 1 activity.
- Full Intersection Display:** The Full Intersection Display uses Red, Yellow, and Green LEDs to show active colors of all channel inputs simultaneously for both real-time intersection status and latched fault status.
- 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.
- Dual Indication Monitoring:** Detects simultaneous active Green and Yellow, Green and Red, or Yellow and Red inputs on the same channel (Type 12 mode includes Walk).
- Field Check Monitoring:** In Type 16 mode, the MMU-16E analyzes the Controller Unit output commands and field input status to isolate whether the problem was caused by a Controller Unit malfunction, or a failure in the load bay or field wiring, and then identifies the faulty channel and input directly.
- 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 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.
- ECom™ PC Software:** Access to the MMU-16E data is provided by the industry standard EDI ECom™ Windows based software for status, event log retrieval, configuration, and data archival.
- Dual 12/16 Channel Mode** Operates as a 16 channel unit (Type 16) with 3 inputs per channel (Red/Dont Walk, Yellow, Green/Walk), or as a 12 channel unit (Type 12) with 4 inputs per channel (Red, Yellow, Green, Walk) for downward compatibility with TS1-1989

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