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.
ECcom™ PC Software:	Access to the MMU-16E data is provided by the industry standard EDI ECcom™ 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

EBERLE DESIGN INC.
3819 East La Salle Street
Phoenix, AZ 85040 USA
www.EDItraffic.com
Tel (480) 968-6407
Fax (602) 437-1998

Designed, Manufactured and Tested in the United States of America

ISO 9001:2000 Registered