

MMU2-16LEip

Malfunction management unit
for NEMA cabinets

NEMA

Use the built-in Setup Wizard to quickly configure the SmartMonitor® to the requirements of the cabinet and intersection.

Features

- NEMA TS2-2016 Standard
- Setup Wizard
- Diagnostic Wizard and help system
- Standardized communications
- Program card memory
- 16 channels
- Supports Flashing Yellow Arrow modes A-L

Highlights

Simple setup: Many intersections can be completely configured by answering just 3 guided questions.

Smart configuration memory: Save a completed configuration as a file and transfer it to other monitors.

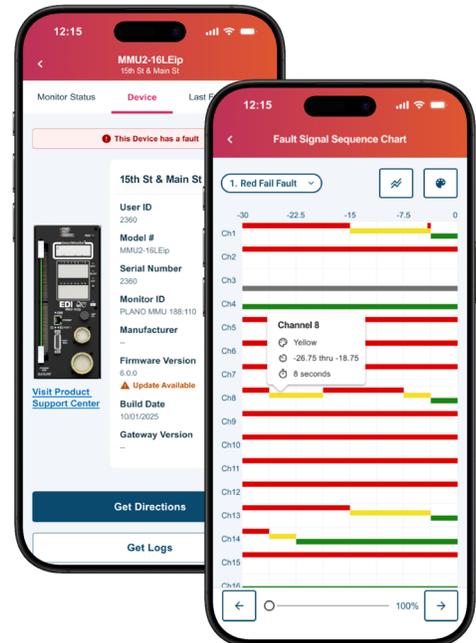
Actionable diagnostics: Guided troubleshooting with recommended resolutions.

What is SYO™?

SYO is an intelligent maintenance and operations ecosystem that provides supervisors and technicians with near real-time visibility across their EDI signal monitors.

Improve uptime with faster detection and response, and reduced field visits by diagnosing problems before dispatching technicians. Learn more: synapse-its.com/SYO

- Text and email alerts sent directly to you, with on-call and vacation options.
- Work from the field or office with SYO App (Apple and Android™) or SYO Web.
- See all your devices on a map with live status view or drill down for more critical device or fault details.



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| NEMA Standard | |
|---------------------------------|--|
| NEMA TS2-2016 Standard | Meets all specifications of the NEMA Standard TS2-2016 for the MMU2 configuration while maintaining compatibility with NEMA TS1-1989 Assemblies. |
| NEMA Flashing Yellow Arrow PPLT | Supports MUTCD Flashing Yellow Arrow PPLT operation and meets / exceeds the NEMA Standard MMU2 requirements of TS2-2016 FYA, providing modes for both TS-2 or TS-1 cabinet configurations. |

| Standardized communications | |
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| 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 | |
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| 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. | |

| Field check monitor | |
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| The MMU2-16LEip analyzes the controller output commands and field input status to isolate whether the cabinet fault was caused by a controller malfunction or a failure in the load bay or field wiring, and identifies the faulty channel and input directly. | |

| Logs | |
|-----------------------------|--|
| 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. |
| 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. |

| Wizards | |
|-----------------------------------|--|
| 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 | |
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| The MMU2-16LEip SmartMonitor® 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 MMU2-16LEip SmartMonitor® are stored in nonvolatile memory on the EDI Program Card. Moving the Program Card to another MMU2-16LEip automatically transfers all settings. | |

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

| EDI RMS-Engine | |
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| 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 | |
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| Access to the MMU2-16LEip data is provided by the industry standard EDI ECom Windows based software for status, event log retrieval, configuration, and data archival. | |

| SYO ecosystem | |
|----------------------------|--|
| Interfaces | SYO App (Apple, Android), SYO Web . Contact us for SYO API integration.   |
| User management | Role-based access and audit logs. Optional single-sign-on (SSO) with company email. Secure login with user authentication. SYO App works with a mobile phone's biometrics. |
| Device monitoring & alerts | Centralized monitor dashboard, refreshed every half second (communications, health, other data). SMS text and email alerts (faults) with on-call + vacation options. Data aggregation and storage. |
| Live device status | See channel status, channel voltage and more. |
| Remote access to logs | Fault Signal Sequence, Monitor Reset, AC Line, Previous Fail, Configuration and more. |
| Device configuration | View and share most recent configuration changes for each monitor. |
| Security | Zero-trust architecture with encryption from agency network to hosted environment. |

