

CMUip-2212-HV

Cabinet monitor unit
for ATC cabinets

ATC

Ensure cabinet malfunctions are detected, diagnosed, and repaired confidently with the broadest fault coverage of any monitoring system.

Features

- 32 physical channels, optional 4 virtual channels
- Program with interchangeable Datakey™
- MonitorKey® programming Tool
- Load current monitoring

Highlights

Expanded channel capacity: Support complex signal configurations and multimodal traffic environments.

Improved diagnostic accuracy: Dual voltage and current monitoring provides a complete view of signal operation.

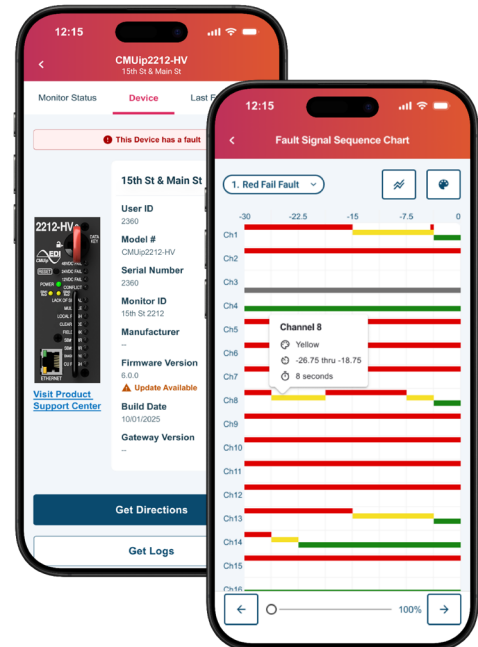
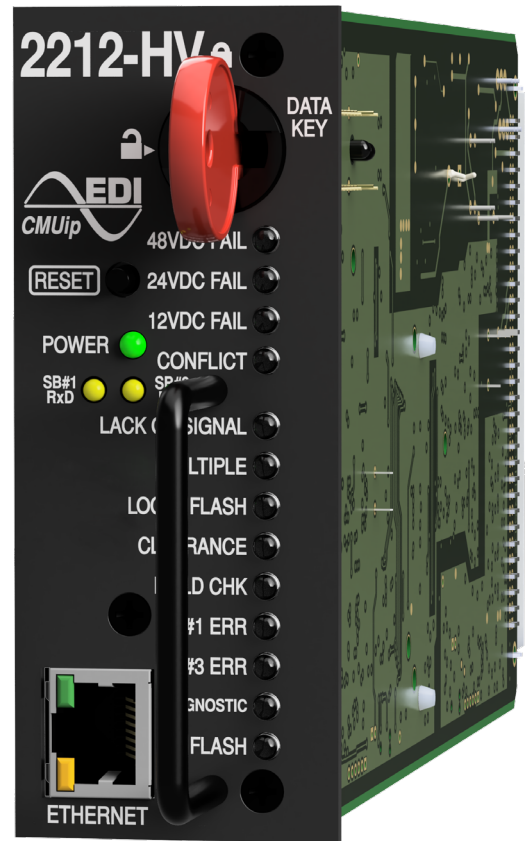
Simplified programming with added security: Plug-and-play data keys eliminate soldering while restricting configuration changes to approved tools and users.

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.



Configuration

Capable of monitoring up to 32 physical load switch channels (Red, Yellow, Green). An optional four virtual channels can be used to optimize compact applications.

Programming

Complete CMUip-2212 programming is provided by an interchangeable Datakey™ nonvolatile memory device. This rugged key stores all CMUip-2212 configuration parameters and eliminates programming using jumpers, diodes, or DIP switches. Monitor programming parameters can be easily developed using the software wizards provided by the EDI MonitorKey® programming tool.

MonitorKey® programming tool

The EDI MonitorKey® programming tool provides a simple but complete solution to programming the CMUip-2212 parameters into the Datakey™. The software includes a parameter Setup Wizard that simplifies the initial set-up of the parameter database.

Load current monitoring

Using the load current information from the iPack® 2202 switches, dark intersection approaches resulting from a no-load condition can be detected at the time of the fault rather than waiting for the signal to cycle. The Diagnostic Wizard uses load current information to unambiguously diagnose open load and leakage faults.

Field check monitor

The CMUip-2212 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	The CMUip-2212 maintains a nonvolatile event log recording the complete intersection status as well as time stamped previous fault events, AC Line events, configuration changes, monitor resets, cabinet temperature and true RMS voltages and currents for all field inputs.
Signal sequence history log	The signal sequence history log stored in nonvolatile memory graphically displays up to 30 seconds of signal status prior to the fault trigger event with 50ms resolution to ease diagnosing of intermittent and transient faults.

EDI ECom PC software

Access to the CMUip-2212 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.

