



# CMUip-2212-LV

CABINET MONITOR UNIT  
FOR ATC CABINETS

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
- Low Voltage 48 VDC Operation
- Data Provided By ECom Software

## 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.



## ATC CABINET COMPATIBLE

### Configuration

Capable of monitoring up to 32 physical load switch channels (RYG). 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.

### 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.



### 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.

### 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.

### Low Voltage 48 VDC Operation

Provide an additional level of safety to technicians and motorists with touch-safe low voltage operation in an ATC LV cabinet.