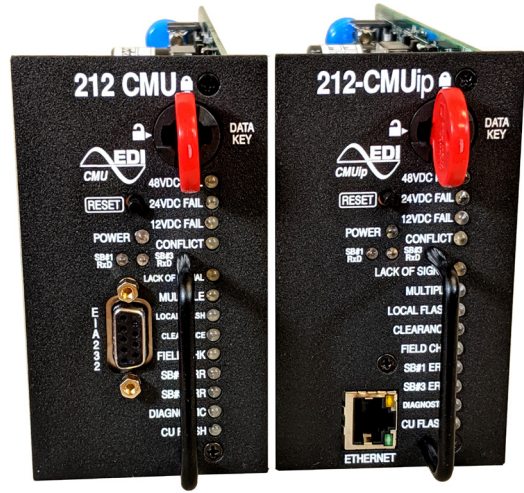# CMU-212

CABINET MONITOR UNIT
FOR ITS CABINETS

Intended to operate with the AMU-214 Auxiliary Monitor Unit to form a compact and modular cabinet malfunction management system for the ITS Cabinet.

FEATURES

- Meets all requirements of the ASHTO/ITE/NEMA Intelligent Transportation System Standard Specification for Roadside Cabinets v01.02.17b
- 32 channel capacity
- Programming is provided by an interchangeable Datakey™
- Standardized Communications
- Load Current Monitoring

HIGHLIGHTS

- Field Check Monitor
- Event Logging
- Signal Sequence History Log
- Data Access Provided By ECcom Software
- MonitorKey®Programming Tool

ITS CABINET COMPATIBLE

Configuration

Capable of monitoring up to 28 physical load switch channels (RYG) plus 4 virtual channels for a total 32 channel capacity.

Programming

Complete CMU-212 programming is provided by an interchangeable Datakey™ nonvolatile memory device. This rugged key stores all CMU-212 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.

Standardized Communications

Real-time SDLC communications with the Advanced Transportation Controller (ATC) provides complete monitor status to the ATC including field status, fault status, and configuration programming.

Load Current Monitoring

Using the load switch current information from the AMU-214, 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.

Field Check Monitor

The CMU-212 analyzes the ATC output commands and field input status to isolate whether the cabinet fault was caused by an ATC malfunction or a failure in the load bay or field wiring, and identifies the faulty channel and input directly.

Event Logging

The CMU-212 maintains a nonvolatile event log recording the complete intersection status as well as previous fault events, AC Line events, configuration changes, monitor resets, cabinet temperature and true RMS voltages for all field inputs. A real time clock stamps each event with time and date.

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 ECcom PC Software

Access to the CMU-212 data is provided by the industry standard EDI ECcom 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 CMU-212 parameters into the DatakeyTM. The software includes a Parameter Setup Wizard that simplifies the initial set-up of the parameter database.

Model Options

Model	Channel Capacity	Port
CMU-212	32	EIA-232
CMUip-212	32	Ethernet