CMUip-2212

ATC CABINET MONITOR UNIT

The EDI CMUip-2212 Cabinet Monitor Unit is a compact and modular cabinet malfunction management system for the Advanced Transportation Controller (ATC) Cabinet. The CMUip-2212 functions as the main cabinet fault monitoring component. It offers the broadest fault coverage of any monitoring system and incorporates full event logging and status reporting, providing the signal technician with powerful monitoring and trouble-shooting tools to ensure that cabinet malfunctions are detected, diagnosed, and repaired with confidence.

The CMUip-2212 is designed to operate directly with the Model 2202 *iPack*® high density switch packs. Load current monitoring is built-in for each RYG output resulting in a new level of intersection safety and diagnostic performance.

Model Options:

CMUip-2212-HV	32 channel capability with Ethernet for 120 Vac cabinets
CMUip-2212-LV	32 channel capability with Ethernet for 48 Vdc cabinets
CMUip-2212-VHV	32 channel capability with Ethernet for 220 Vac cabinets
ADU-2220	Auxiliary Display Unit (LED / LCD *SmartMonitor*® display interface)

CMUip-2212 ENHANCED FEATURES

Configuration: Capable of monitoring up to 32 physical load switch channels (RYG). An optional four virtual channels can be used to optimize compact applications.

CMU 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 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 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 *ECcom* PC Software: Access to the CMUip-2212 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 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.

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