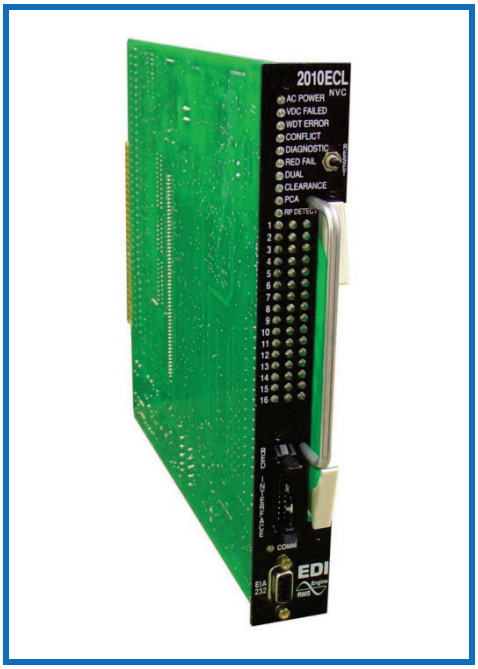

2010ECL-NYC

Signal Monitor

INTRODUCING A NEW STANDARD OF SAFETY AND DIAGNOSTIC CAPABILITIES IN TYPE 170 / 2070 ENHANCED SIGNAL MONITORS

The EDI model 2010ECL-NYC Signal Monitor is designed to be compatible with the requirements of the NYCDOT Controller Unit and Cabinet. The 2010ECL–NYC Signal Monitor utilizes enhanced monitoring functions to increase cabinet fault coverage, providing additional assurance that cabinet equipment malfunctions will be detected and diagnosed properly.

Model Options:

2010ECL-NYC	**16 channel capability with EIA-232 Port**

2010ECL-NYC FEATURES

Enhanced 210 Monitoring Functions: The 2010ECL-NYC meets or exceeds all requirements of the Caltrans *TEES Specifications 3/2009* and NYCDOT *ASTC v4.2.1*. Basic fault coverage includes Conflict, 24Vdc, and CU Watchdog monitoring. Red Monitoring senses the absence of signals on a channel. Dual Indication Monitoring detects simultaneous active signals on a channel. Clearance Monitoring ensures sequencing of signals with a proper minimum yellow clearance interval. AC Line Monitoring detects and responds to low AC Line voltages as well as interruptions with a minimum flash interval.

Event Logging: The 2010ECL-NYC monitor maintains a 100 record nonvolatile event log which contains records of fault events showing the complete intersection status as well as AC Line events, configuration changes, monitor resets, cabinet temperature and true RMS voltages. A real time clock time stamps each log event with time and date.

RYG Full Intersection Display: The Full Intersection display uses Red, Yellow, and Green LEDs to show active colors of all channel inputs simultaneously for real-time intersection status.

EDI RMS-Engine: 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.

Recurrent Pulse Detection: Recurrent Pulse Detection works in conjunction with the RMS-Engine to detect faults that are pulsing or intermittent in nature.

LEDguard®: This EDI innovative signal thresholding technique is used to increase the level of monitoring protection when using LED based signal heads.

Communications to Laptop PC or Remote Traffic Management Center: An EIA-232 port provides access by a local PC or remote TMC running ECcom Windows based software for status, event log review, and archival.

Signal Sequence History Display: Five Signal Sequence History logs stored in nonvolatile memory each graphically display 30 seconds of signal status prior to each fault event. The resulting display eases diagnosing of intermittent and transient faults by viewing the exact signal states that the monitor sensed.

Configuration Monitor: Detects potentially unsafe programming changes and Red Interface cable problems.

Flashing Yellow Arrow PPLT: Two operational modes are built-in for support of the MUTCD Flashing Yellow Arrow PPLT operation based on the number of load switches in the cabinet.

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