



2010

Type 170 / 179 / 2070 Signal Monitor

The EDI model 2010 Signal Monitor is designed to upgrade the capabilities of the basic 210 monitor used in Type 170 / 179 Output Files. The unit is fully compatible with the requirements of the 170, 179, and 2070 Controller Units.

The 2010 Signal Monitor provides enhanced monitoring functions to increase cabinet fault coverage, providing additional assurance that cabinet equipment malfunctions will be detected and diagnosed properly.

2010 FEATURES

- Enhanced 210 Monitoring Functions:** The 2010 meets all requirements of the Caltrans "TSCC Specifications 1/89". 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.
- 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.
- 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 depending on the number of load switches in the cabinet.

LEDguard and RMS-Engine are trademarks of Eberle Design Inc.

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