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Application

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Central Station Application 'Hot' Redundant Alarm Receivers

A central station application, 'hot' redundant alarm receivers enable the highest level of dependability from a life safety alarm monitoring system. In a hot redundant configuration, each individual system that is part of the hot redundant system serves as the automatic backup to the other system. This configuration is particularly effective in active network radio installations.

How it works

Each individual system may include any or all of the standard functionality inherent in Keltron's powerful DMP703/704 alarm monitoring and receiving systems. Functionality includes the simultaneous monitoring of direct connects, coded signals and, with the DR703Le digital system option, digital alarm radio transmitters (DARTs) and digital alarm communicator transmitters (DACTs). For example, one system can monitor up to 16 dialup telephone lines, redundant radio receivers, and up to 20,000 reverse polarity or EOL direct connect accounts.

Hot redundant systems can achieve significant cost savings by allowing a single system platform to receive all types of alarms.

In hot redundant installations, the active system performs monitoring activities as described above. The second, identical system remains on standby. The active system provides the operator interface - annunciation, printing, line failure reporting - and supplies output to automation as required. The standby system is connected to the active system via a serial interprocessor link (IPL). The IPL maintains standby system readiness for input status, database contents, etc. Synchronization by the IPL ensures that any switchover is transparent to automation and to the operator.

An RSW-2 auto/manual system signal switcher is employed to switch monitored inputs and output signals either manually or automatically. Upon an active system processor failure, these signals are automatically switched from the failed active system to the standby system. Manual switching should be performed periodically to ensure that both systems are fully operational. The system provides the capability to switch up to 28 signals or fourteen telephone lines. Daisy-chaining multiple RSW-2s can further increase switching capacity.

In another RSW-2 application, output contacts are used to drive switchgear for moving input direct connect (RP) lines from the active system to the standby system. In all cases, the hardware and software operate to ensure that during a switchover, no events - automatic or manual - are missed. Outputs from the RSW-2 indicate which system is currently active and which is in standby.

Keltron develops and manufactures universally-compatible, UL listed life safety event management systems for the municipal and proprietary markets. Solutions include Ethernet signaling systems, active network radio systems, distributed multiplex systems, digital communicator/receiver systems, and direct wire systems. This document is not intended for installation or maintenance purposes. All specifications are subject to changes without notice. For more information visit www.keltroncorp.com or contact us at 781-894-8710.

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