

Keltron DMP703/704 Remote Systems Fire Alarm Monitoring



Overview

This fire department needed to provide effective, reliable remote monitoring of systems that were located in unmanned fire stations. Keltron installed a system that consisted of three remote Keltron DMP704 compact alarm receivers to monitor and annunciate local reverse polarity

alarm signals and serially retransmit the received signals via RS232c and modems to a centralized Keltron DMP703 alarm receiving system.

How it works

Keltron DMP704 alarm monitoring receivers are located in each of three remote buildings. Each DMP704 is a complete system and capable of stand-alone operation, monitoring and supervising reverse polarity type alarm signals.

Each change of input signal status is visually and audibly annunciated and is also transmitted via an RS232c port through modems to a single Keltron DMP703 alarm monitoring system at the head end. The DMP703 contains a dedicated serial port and modem to receive alarms from each remote system. Only the alarm data is transmitted and each system maintains its own database specific only to its monitored points.

All Keltron systems annunciate their received alarm signals on an integral 7" CRT touch screen display and red/black printer if included. When a signal is received, any field-preprogrammed information accompanies the event-dependent data to the display and printer with a date and time stamp. If an output command line has been entered, the system energizes the appropriate programmed output(s). Received signals are stored in internal memory until annunciated. All signals received generate the audible signal indefinitely and require manual operator acknowledgment to silence.

The Keltron DMP703 system has a two-position key switch. The position of this key switch is used to determine if signals received from the remote DMP704s should be manually acknowledged at the DMP703 and the acknowledge command serially transmitted back to the remote DMP704s to silence the audible signal and clear the screen.

Conversely, during normal operation when the three fire departments are manned, a manual acknowledgement is required at the remote DMP704 systems. Automatic acknowledgment is provided at the central operator station to minimize distraction to local personnel. Operator interaction is not required to simply view the received events. This approach provides an emergency-monitoring plan in the event of an evacuated fire department. The selection of emergency or day/night mode is as easy as using a key.

The CRT display allows field programming of the database and any assigned outputs. The printer provides the only access to the list of accounts that have been saved in the database. The printer also provides the only record of received signals unless the history option is included.

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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