KELTRON ®

Keltron DMP703/704 Alarm Receivers
Keltron 95K1650KIT Display Upgrade Kit

Sharper Display
Easy to Install
Increased Reliability

Keltron alarm receivers are known for reliable operation and long lasting performance. Keltron pioneered the use of cathode ray tube (CRT) display technology in our alarm receiving systems, unique at that time in the industry. Life safety is an industry where dependability is essential and Keltron's most recent generation of receiving systems continued to use these dependable CRT displays.

As technology evolves, even more reliable LED/LCD flat screen displays are replacing the older CRT displays, reducing the market for older technology. Keltron engineers designed a replacement LCD display that will extend the life of our customers' Keltron DMP703/704 alarm receivers.

Installation
The Keltron 95K1650KIT includes a flat screen 6.5" LCD and all the parts required to upgrade Keltron DMP703/704 receivers from CRT to LCD display technology. Replacement takes approximately 20 minutes. The kit includes an instruction manual, controller electronics, PC board to accept the existing ribbon cable connector from the #2799 board, insulating tape already applied and nylon hardware to ensure electrical isolation as required by the regulatory and listing agencies.

Benefits
New technologies include many added benefits and the new Keltron LCD display improves reliability and quality. Advantages include:

▰ Increased reliability and reduced lifetime cost of ownership -
   The LCD is rated at 50,000 hours MTBF - a much longer than the CRT rated at only 20,000 hours MTBF. This reduces the lifetime cost of ownership of the highly reliable Keltron receiving system. The LED light output will not degrade noticeably over time.
▰ Improved display quality -
   The digital electronics technology of the LCD delivers improved resolution, clarity and consistency of display. The square lines ensure control buttons that are completely symmetrical and perfectly aligned in the soft switch matrix.
▰ Ease of installation and reduced cost of upgrading -
   The LCD upgrade and replacement kit includes an LCD screen (Keltron PN# 10D1650) which is designed to fit easily in the existing metal Keltron CRT frame. It uses all the existing cabling and electronics including the #2798 controller board, #2799 soft switch controller board and #2800 soft switch touch screen matrix board. The existing green video filter is also used to further reduce the cost of upgrading.

Features
The Keltron LCD display screen will display the same number of lines per event as did the original CRT display as set by the programming of the system message database and is compatible with existing system display options.

▰ Compatibility and consistency -
The system operator will notice increased screen clarity, better definition and improved viewing ability. The green video filter, proven to reduce eye strain over time, ensures the same color and brightness as the familiar CRT.

◤ **Display controls -**
The Keltron alarm monitoring system is set up to reflect the exact input signals. No adjustments are required.

    o Menu/Enter - turns the screen display menu On or Off, and activates selection
    Note: once indexed to function to adjust, press Enter and then Up/Down will increase or decrease
    the adjustment.
    o Inc or Up or "+" - increases the setting or index to the next function
    o Power On/Off button - turns the unit On and Off
    o Dec or Down or "-" - decreases the setting or to index to previous function
    o Auto - enables automatic set-up of controller

◤ **On screen display functions** - depend on input signals
    o Brightness - fine tunes brightness level
    o Contrast - adjusts contrast to accommodate ambient lighting
    o Auto Adjust - auto adjusts H-phase, H & V position, and clock
    o H-size - adjusts the horizontal size
    o V-size - adjusts the vertical size
    o H-position - adjusts the horizontal position
    o V-position - adjusts the vertical position
    o Sharpness - fine tunes sharpness
    o Color Temp - chooses color temperature 9300, 6500, or user-desired
    o Language - chooses one of five languages
    o OSD - adjusts location, timeout
    o DOS text/graphics - selects display quality when using DOS
    o Recall - recalls default values

Specifications
    o Capacity = 10 lines by 32 characters (alarm display screen)
    o Temperature range = -30 to +80 C
    o Brightness = 800 nits typical
    o Contrast ratio = 600:1 typical
    o Viewing angle = left and right 80 degrees, top and bottom 70 degrees
    o ROHS-compliant
    o Current draw* 95K1650KIT = 200 mA @ 24VDC
    *This represents a lower current draw than the CRT by 200 to 250 mA depending on variations in
    analog components. It is not necessary to recalculate the battery back-up as the installed ampere
    hours of battery back-up will last longer than originally calculated if not significantly degraded over
    time.
    o Shipping weights
        95K1650KIT   3 lbs
        95K4650   4 lbs

Ordering information
    o Order a Keltron 95K1650KIT - to upgrade an existing Keltron DMP703 CRT to an LCD or to
    replace an existing LCD display.
    o Order a Keltron 95K4650 - to replace the entire Keltron 95K4722 CRT assembly or Keltron
    95K4650 assembly. The Keltron 95K4650 includes the metal frame, #2799 soft switch controller
    board, #2800 soft switch board, green video filter and Keltron 95K1650KIT LCD display screen and

Keltron develops and manufactures universally-compatible, UL listed life safety event management systems for the municipal and proprietary markets. Solutions include Ethernet, active network radio, distributed multiplex, digital communicator/receiver, and direct wire signaling 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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