

## Keltron LS DACR Computer-Based Digital Receiver



**Reliable**  
**Cost-Effective**  
**Scalable**

### Overview

The Keltron LS DACR is a computer-based digital alarm communicator/receiver that accepts alarm signals from digital alarm communicator transmitters (DACTs) and displays the information on the Keltron LS 7000 life safety event management system. Designed for standalone operation, the Keltron LS DACR receiver provides reliable, cost-effective monitoring of thousands of individual sites.

### How it works

This cost-effective, highly reliable, scalable fire and security alarm monitoring system is particularly effective for monitoring commercial, residential and satellite sites from a remote location. Because it receives signals from the dial-up telephone network (POTS/PSTN), the Keltron LS DACR receiver enables a dispatcher to monitor alarms from either a remote or centralized location. It efficiently monitors multiple DACTs at large, multi-building facilities and provides event-specific information and response instructions. Combined with the feature-rich Keltron LS 7000 software and Keltron LCU2X line card unit, the Keltron LS DACR receiver provides a field-programmable database and history file that facilitates data analysis and history reporting.

### Benefits

The primary benefits of the Keltron LS DACR are its cost-effectiveness and its ability to leverage the high performance, accuracy, reliability and scalability of the Ethernet (IP) communications infrastructure.

- ✔ **Cost effective** - receives signals via existing telephone lines and uses existing DACTs, reducing the lifetime cost of ownership
- ✔ **Reliable** - includes the field-proven Keltron LS 7000 Life Safety Event Management system
- ✔ **Scalable** - may be converted to a UL listed, Keltron LS 7000 system that is capable of monitoring multiple signaling technologies with multiple workstations.
- ✔ **Extensible** - leverages new technologies provided by Keltron LS 7000 software upgrades
- ✔ **Cost-effective** - runs on a standard commercial tower computer or a UL 864-recognized computer, depending on which the application requires.

### Applications

The Keltron LS DACR receiver is an effective solution for manned or unmanned locations requiring DACT monitoring. When consolidating alarm monitoring accounts, Keltron Fire Dialers (DACT) or Keltron LS Net Ethernet (IP) transceivers can combine with the Keltron LS DACR receiver to provide on-site notification and/or remote monitoring.

### Options

Data outputs are available to enable third party system interfacing. This system supports both Ethernet (IP) LAN/WAN communication and RS232 serial port connections.

### Features

Additional features and system details are included in the Keltron LS 7000 data sheet.

- ✔ **Installation** - the Keltron LCU2e(X) DACR receiver can be remotely located - away from the mission-critical Keltron LS 7000 dispatch computer.
- ✔ **Configuration** - the Keltron LCU2e(X) DACR receiver can be powered by either a plug-in transformer or power supply with battery charger and back up batteries, e.g. Keltron PS 740-3.
- ✔ **Support** - minimal equipment reduces technical support requirements and license fees.
- ✔ **Features** - the Keltron LS DACR receiver incorporates all the features of the Keltron LS 7000 software and provides all of their benefits.

### Configuration

This solution consists of the current version of the Keltron LCU2E(x) DACR receiver and a Keltron-provided, preconfigured computer with a serial port on which the Keltron LS 7000 Life Safety Event Management System software is installed.

**Installation**

The Keltron LCU2e(X) DACR receiver is rack-mounted and provided with filtered and regulated 24 VDC power. A standard RS232 cable connects to a serial port on the computer which has AC power and a monitor, keyboard and mouse. An optional event printer can be connected to the Keltron LS 7000 computer.

**Keltron LS DACR Specifications****Power**

- ✔ Computer - varies with selected computer
- ✔ Keltron LCU2e4 receiver - 24 VDC input avg. 80 mA

**Shipping weight**

- ✔ Computer - varies with selected computer
- ✔ Keltron LCU2e4 receiver - 4 lbs
- ✔ Keltron PS740-3 power supply - 9 lbs

**Dimensions**

- ✔ Computer - varies with selected computer
- ✔ Keltron LCU2e4 receiver -  
1.75"H x 19"W x 11"D
- ✔ Keltron PS740-3 power supply -  
5.25"H x 19"W x 12"D

**Communications specifications**

- ✔ Type - Pulse, DTMF, FSK
- ✔ Reception speed - 10, 20, 40 pps (dual round or checksum)
- ✔ Handshake/kissoff - 1400 Hz/2300 Hz
- ✔ Pulse frequency - 1800 Hz/1900 Hz

**Accepted digital dialer formats**

- ✔ Sescoa, Vertex, Franklin Fast 3x1 20 pps and 3x1 extended
- ✔ Ademco, S.K. (slow) 3x110 pps and 3x1 extended
- ✔ Acron 4x1 20 pps and 4x1 extended
- ✔ Silent Knight (Napco) 4x2 20 pps
- ✔ Sur-Gard DTMF
- ✔ Ademco Express DTMF
- ✔ Ademco Contact-ID DTMF
- ✔ Radionics BFSK

**Telephone lines**

- ✔ Each Keltron LCU2e(X) accepts two telephone lines and requires one computer serial port.
- ✔ Telephone lines are supervised; they report line loss and restoral.

**Serial communications**

The serial communications between the Keltron LCU2e(X) receiver and the Keltron LS 7000 computer is supervised and loss of communication is reported.

**Error messages**

The receiver annunciates two distinct and different errors that can be programmed into the Keltron LS 7000 database to enable more efficient identification of the issue:

- ✔ Error for unintelligible data from a DACT to the Keltron LCU2e(X) receiver
- ✔ Error for garbled data from the Keltron LCU2e(X) receiver to the Keltron LS 7000 computer



**Keltron LS DACR Receiver - Front Panel**

The front of the Keltron LCU2e4 receiver has three LEDs providing constant indication of line card status:

- ✔ Comm Fail LED (yellow) blinks for receiver connection fault.
- ✔ Line one LED (red) or line two LED (red) each indicate the idle power-on condition when on steady, busy off hook when flashing fast, and loss of phone line when flashing slow.

Keltron develops and manufactures universally-compatible, UL listed life safety event management systems for the municipal and multi-building facility 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](http://www.keltroncorp.com) or contact us at 781-894-8710. Made in the USA.