

Keltron LS CSR Ethernet Receiver



Overview

The Keltron LS CSR Ethernet Receiver enables multi-building facilities and municipalities to monitor fire, security, access control, emergency call and industrial process equipment using an existing Ethernet network. This cost-effective receiver provides an interface from Keltron LS Net Ethernet (IP) transceivers to Keltron DMP703/704 alarm receivers, standard automation software systems, and other legacy alarm receivers that otherwise are unable to receive alarm and other event signals using Ethernet (IP) communications infrastructures.

How it works

The Keltron LS CSR receiver receives signals from the Keltron LS Net 800/900 series of Ethernet (IP) transceivers. It provides the same receiving capabilities as the Keltron LS 7000 Life Safety Event Management System but does not provide annunciation and operator interface capabilities. Using standard automation protocols, it forwards received Keltron LS Net events to a central head end, such as a standard automation software system or alarm receiver.

Benefits

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

- ▶ **Flexibility** - provides significant operational benefits for:
 - ▶ Municipalities with existing automation software or CAD systems
 - ▶ Nationwide companies with individual alarm systems and monthly monitoring charges
 - ▶ Campuses and multi-building industrial or commercial complexes
 - ▶ Security offices at residential or industrial complexes
 - ▶ Users that want to expand the functionality of existing Keltron DMP703/704 receiving systems
 - ▶ Central station monitoring companies that would increase their reach by incorporating IP signaling technology
- ▶ **Cost effectiveness** - enables the owner to use existing equipment and infrastructure investments:
 - ▶ Alarm receiving systems
 - ▶ Automation software systems, platform and training
 - ▶ Standard Ethernet network infrastructure
 - ▶ Fire alarm detection and suppression systems
 - ▶ Security, intrusion and access control systems

Features

In addition to a wide range of features and functionality, the Keltron LS CSR Ethernet receiver meets the requirements of NFPA 72. Key features include:

- ▶ **Software**
 - ▶ Accepts event signals from all Keltron LS Net series IP transceivers
 - ▶ Provides Keltron LS Net interface to Keltron DMP703/704 alarm receivers
 - ▶ Provides Keltron LS Net transceivers interface to standard automation software
 - ▶ Converts Keltron LS Net IP protocol to ASCII RS232 automation format Contact-ID
 - ▶ Multiple parameters optimize facility-specific requirements
 - ▶ Remote logging facility provides comprehensive view of network and automation system communications for efficient troubleshooting and complete event history
- ▶ **Hardware**
 - ▶ Convenient rack mounting and reduced size enclosure
 - ▶ Compact unit is easy to install
 - ▶ Locally- and remotely-accessible programming for easy configuration
 - ▶ High-efficiency, switch-mode power supply provides low power draw, low heat dissipation, extended battery life.
- ▶ **Security**
 - ▶ Password protection
 - ▶ Programmable Telnet blocking to allow or deny remote programming access and firmware updates

Keltron LS CSR Specifications

Capacity:

The Keltron LS CSR Ethernet receiver is capable of supporting hundreds of Keltron LS Net transceivers at one time. Limiting factors are determined by site-specific configurations including:

- RS232 serial communications bit rate
- Capacity and computing power of the automation system or alarm receiver
- Required check-in interval
- Expected peak event traffic

Automation Communications:

EIA-RS232 with programmable baud rates from 300 to 38.4k Baud, 7-8 databits, 1-2 stop bits, even, odd or no parity

- Programmable hardware or software flow control
- Automation format: Contact ID using Ademco 685 or Bosch 6600 compatible formats
- Programmable extended data option communicates complete original point addresses, device/sensor types and custom-programmed point labels

Network Communications:

- 10/100Base-T 802.3-compliant Ethernet using autosense or programmable full/half duplex, 10 or 100 Mb/s
- Bilateral-supervised protocol via UDP
- Static IP address
- Fully compatible with standard, existing Ethernet infrastructures
- Minimal network availability requirements

Mechanical:

- 3.5" H x 19" W x 14" D rack-mount enclosure



Keltron LS CSR Rear View Drawing

I/O Connections:

- RS232 port for host connection DB9F
- Handheld/PC programming port RJ25
- RJ 45 Ethernet network
- Trouble output (form C relay)

Setup:

- Automation, serial communications, network and security settings are programmed through local serial connection or remotely via network
- Non-volatile memory retains settings during power failure

Status LEDs:

- Front panel: power, system status, event queue, automation busy, fault
- Rear panel: system heartbeat, link status, access

Ship weight:

- Keltron LS CSR - 7.5 pounds
- Keltron 40B007 battery - 8.4 pounds

Environmental:

- Operating temperature: 0 to 50° C
- Storage temperature: 0 to 70° C
- Humidity: 0 to 93% non-condensing

Power:

- Monitors and reports AC, battery and charger integrity
- AC 108-132V RMS, approximately 0.15A
- Current draw at 12VDC - .3 A
- Backup battery (order separately):
12 AHr battery Keltron PN 40B007, externally located provides 24-hour backup
For 60-hour battery backup, use two (2) Keltron 40B007 batteries

Keltron model number: LS CSR

Option: redundant, auto-failover configurations are achieved using the Keltron LS-AFSW-1 smart switch.

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.

