

## **Keltron IP-KOM Ethernet (IP) Communicator**



- Enables Pinpoint Off-Site Alarm Annunciation
- Provides Monitoring of Existing Systems Via IP
- Provides Configurable Serial Interfaces

### **Overview**

The Keltron IP-KOM Ethernet (IP) communicator is a unique solution that interfaces with emergency call, nurse call, access control, building management and other systems to enable near instantaneous response from personnel at a central or remote monitoring location. This solution provides a bridge from previously unmonitored systems to a commercial or private monitoring facility.

It enables reliable, cost-effective alarm monitoring for serial RS232 data-enabled systems and devices that provide up to eight (8) dry contact outputs. The Keltron IP-KOM communicator uses both input-monitoring circuitry and secure, supervised Ethernet (IP) communication to transmit events to a receiving station.

The Keltron IP-KOM communicator provides an interface to an on- or off-site Keltron Ethernet (IP) receiver directly over the Internet or through a LAN/WAN connection. Systems lacking relay or DACT outputs that are unable to signal a central station, can use the Keltron IP-KOM communicator to send those signals. The Keltron LS CSR Ethernet (IP) receiver, compatible with the Keltron IP-KOM Ethernet (IP) communicator, provides a standard ASCII Contact-ID RS232 output and can be monitored using either third-party, central station automation software or the Keltron LS 7000 alarm monitoring system.

### **How it works**

The Keltron IP-KOM communicator accepts both pre-defined ASCII RS232 data strings and relay outputs and converts them to Contact-ID, an alarm industry standard alarm-reporting format that is compatible with a Keltron Ethernet (IP) receiver. Transmission to host receiver is accomplished by sending XML in a UDP packet.

### **Benefits**

- ✔ Performance - provides signaling with advanced error detection and supervision. On-demand, event-driven protocol minimizes traffic load on existing networks
- ✔ Security - protected against network attacks
- ✔ Reliability - bilateral supervision ensures end-to-end reliability
- ✔ Flexibility - compatible with a wide range of third party equipment
- ✔ Ease of Integration - leverages existing network infrastructure and facilities, uses standard Ethernet connections and protocols, and utilizes local IT expertise

### **Features**

- ✔ The RS232 port is matched to the intended data source through a software interface. When the monitored system can support it, this may include communications supervision and interruption reporting
- ✔ A fault annunciation relay output may be monitored by third-party equipment
- ✔ Transmits signals in standard Contact-ID format
- ✔ Zones 1-8 supervised EOL
- ✔ Compact, easy to install in a deep 3-gang electrical box. Faceplate and bezel kit is available to secure the unit.
- ✔ Monitor mode provides a real time data feed of all incoming and outgoing data

## Security

Closed architecture prevents network attacks and hijacking. Configurable password protection, remote access lockdown and firmware security ensure enhanced protection. The Keltron IP-KOM reports unauthorized access attempts to the receiver.

## Low network traffic

Uses low-bandwidth, non-pollled, on-demand network architecture that creates minimal network traffic.

## Flexible programming and setup

Programming functionality in the software includes multiple parameters that optimize the environment's specific requirements. It is not necessary to take a Keltron IP-KOM off-line for setup or diagnostics. Programmable functions include host ACK time-out interval, maximum retry number, retaining data after retries are exhausted, and check-in interval.

## Easy diagnostics

The Keltron IP-KOM communicator supports the use of common network maintenance and diagnostic tools including ping and trace route. The transceivers provide the ability to transmit simulated events to the host, and provide both local and remotely-accessible diagnostics utilities as well as an extensive array of hardware status indicators.

## Status indicators

The power and trouble LED indicators are viewable from the front after mounting. The eight diagnostic LEDs viewable from the rear if the PC board is not mounted in an enclosure are: System active (Run), Network Link, Network Traffic, System Status, Host Ack, Alarm Status (ALM), FACP TXD and FACP RXD. Please see the installation manual for explanations of the LEDs' diagnostic functions.

## Specifications

The Keltron IP-KOM Ethernet (IP) communicator includes a powerful microprocessor, a network connection, an ASCII data-to-Contact-ID converter and flexible programming. This unique communicator monitors both 8 hardwired zone inputs and an RS232 serial port.

**Hardwired zone inputs:** 8-EOL resistor supervised

**EOL resistor value:** 10K Ohms

**Maximum input line resistance:** 1000 Ohms

**Relay:** Form 2C.

**Contact ratings:** Maximum 2A @ 220 VDC or 250VAC.  
Not to exceed 60W or 62.5 VA

**Audible device:** 82 dB @ 10cm, 2300 Hz continuous tone

### Communications:

- 802-3 compliant Ethernet support, 10/100 base-t full or half duplex aut sensed or configurable
- Addressing via static IP or DHCP
- Option to set at full or half duplex
- Option to set at 10 or 100 Base-T

### Environmental:

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

### Keltron model numbers:

- IP-KOM - serial and 8 EOL zone IP transceiver
- IP-KMT - stainless steel face plate, 3-gang mounting cage includes the following two items:
  - IP-3GANG - gang mounting cage only
  - IP-3GANG-HW - attachment hardware
- 40PS061 - plug in power transformer

### Ship weight:

4 pounds

### Supported interfaces:

 call for latest list

- 97P1420XP - Replaces all previous interfaces from 97P1411 to 97P1419
- 97P1520XP - Universal serial input replaces 97P1501
- 97P1530XP - Universal Contact-ID serial input replaces 97P1503

### Options:

For applications that require it, Keltron offers a UL listed Ethernet (IP) communicator

### Setup:

- Security options and local and host network settings may be programmed through a local serial connection or via the network
- Zone status report, test events and other data are available through the programmer's interface
- Non-volatile memory retains transceiver settings throughout a power failure
- User-programmable settings:
  - Default event code
  - Serial port baud rate and settings
  - Enable/disable supervision of serial port
  - Individual hard-wired zones: e.g. zone enable/disable and zone type (fire, medical burg, etc.)
  - Security settings
  - Host/network settings

### Jumpers:

An audible device disconnect jumper will physically disconnect power from the audible device

### Power requirements:

- Power input - regulated or unregulated, filtered 12 VDC to 24 VDC; 9 volts AC RMS to 20 volts AC RMS
- Power draw - 150 mA @ 12 VDC, 75 mA @ 24 VDC, 200 mA @ 9 VAC RMS, 90 mA @ 20 VAC RMS
- Max power draw with hand-held programmer plugged in and is less than 200 mA at 12V
- Total power consumption - less than 2 watts

**Size of PC board:** 2.70" x 3.85"

**Weight:** 11 oz

**Enclosure:** commercially available 3-gang electrical box

**Monitoring Port:** DE9F, RS232 4800 baud

Keltron develops and manufactures universally-compatible, UL listed life safety event management systems for multi-building facility and municipal markets. Solutions include Ethernet (IP), active network (mesh) radio, cellular, distributed multiplex, digital communicator/receivers, and direct wire signaling systems. This document is not intended for installation or maintenance purposes. All specifications are subject to change without notice. For more information visit [www.keltroncorp.com](http://www.keltroncorp.com) or contact us at 781-894-8710. Made in the USA.