KKKELTRON ®

Keltron RF778F
Wireless Transceiver
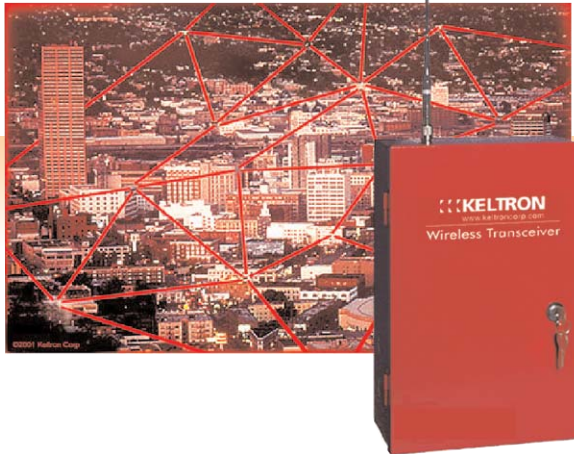
High performance

Cost effective

Scalable

UL-Listed Primary Signaling

Keltron RF778F wireless transceivers provide two-way alarm transmission from monitored locations to the supervising receiver. Replacing expensive and unreliable telephone lines, active network radio is a self-routing and self-healing solution that ensures instant life safety event monitoring over a wide geographic area.

Designed for use in campus facilities, industrial complexes or municipal environments, each Keltron RF778F wireless transceiver serves as both a transceiver and a repeater to improve the strength and range of the entire network. The two-way transceiver provides high integrity communications that ensure every signal is authenticated and acknowledged.

Keltron RF778F wireless transceivers feature 8 discrete programmable end-of-line (EOL) inputs.

Keltron RF778F benefits

High performance - delivers messages in less than two seconds
Cost effective - case-mount antenna - easy installation reduces expense - eliminates monthly telephone charges
Scalable - multiple routing enables long range mesh network with high capacity growth potential
Reliable - unique store-and-forward technology eliminates signal loss

Keltron RF778F features

The Keltron active network radio system is UL-listed as a Primary Signaling System. This means that it may be used as the sole method of transmitting fire alarm signals to the receiving location. Other key features include:

- Built-in power supply and battery charger
- Digital dialer input using the IntelliTap receiver to tap the alarm panel dialer output and transfer full alarm data by radio
- 8 programmable end-of-line fire/security inputs (EOL)

- Alternate input module, DataTap™ RS232 interface to addressable FACP
- Ground fault detection for direct device monitoring
- Charger failure reporting
- Synthesized radios increase stability and accuracy
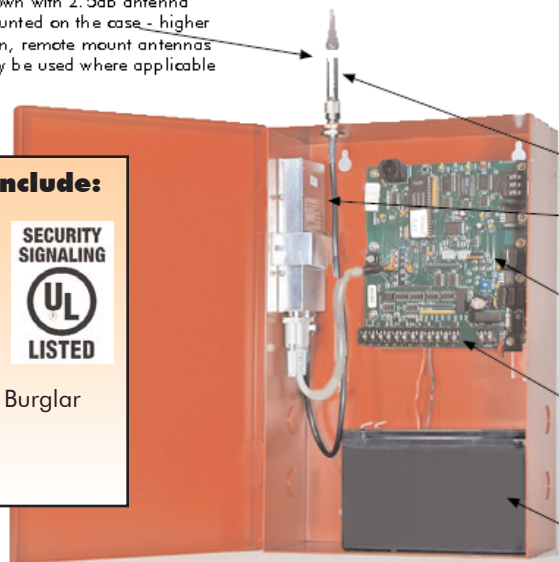
Programmable features include:

- Check-in time
- Time-to-live (TTL)
- AC fail delay reporting

- Second alarm delay
- Antenna cut delay
- Network/cipher code/account

Shown with 2.5db antenna mounted on the case - higher gain, remote mount antennas may be used where applicable

Typical Configuration:

Antenna: omnidirectional, choose from 2.5 db to 7 db

Transceiver: 2-5 watts typical, UHF and VHF available

Smart controller for transceiver and repeater reports alarms, trouble, resporals, low battery, AC status and more dynamically adapts to maximize performance

8 - EOL fire/burglary inputs

Built-in power supply/battery charger

UL Fire & Safety Listings Include:

▮ **UL1610** (standard)
Central Station Alarm Units

▮ **UL864** (standard)
Control Unit Accessories, System

▮ **UL681** (standard)
Installation and Classification of Burglar and Holdup Alarm Systems

SECURITY SIGNALING
UL LISTED

Specifications

8 Zones	8 programmable EOL fire/burglary inputs
Ack delay/ Antenna cut	Form C fail security relay contact (local reporting) provides a signal at the transceiver if transmissions are blocked, low battery or charger fail
Radio	Standard frequency range is 440-470 MHz, others available
Standard output power	2 watts, others available. All radio systems require FCC licensing
Power input	16.5VAC, 40VA, UL-listed class II transformer required
Handheld programmer	1 per network (order separately) - used primarily during installation of the transceiver to set transceiver parameters (10R7041)
Voltage	12VDC nominal
Current	150 mA standby, 1.2 A transmit (2 W transmitter)
Back-up battery (order separately)	12V, 7.5AH (24h), lead acid gel type
Low battery reporting	2 minute test cycle (approx.)
AC status reporting	Reports to supervising station after approximately 100-160 minutes without AC power, reports AC power restoral after approximately 100-160 minutes of restored power

Colors	Available in standard colors: burglary beige or fire red. Please specify when ordering
Operating temperature range	0 to 49° C
Storage temperature range	-10 to 60° C
Relative humidity range	0 to 85% RHC, Non-condensing
Box dimensions (approx.) (excluding antenna)	13.25" H x 8.5" W x 4.3" D (34cm x 21.5cm x 11cm)
Box weight (approx.) (excluding battery)	5.6 lbs / 2.6 kg

Options

IntelliTap	Satellite/remote dialer data receiver
DataTap™	RS232 serial interface to addressable FACP data receiver*

*Note: any fire panel that is monitored by a Keltron transceiver must provide a serial data output or compatible hardware outputs that are active and can be monitored. Review the compatibility charts on the Keltron Web site for more details.

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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