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**KELTRON**®

## Keltron RF780F Dual Path Transceiver



**High performance**  
**Dual Path Communications Technologies**  
**Scalable**  
**UL-Listed Primary Signaling**



**K**eltron RF780F dual-path radio/IP transceivers are the next generation of wireless communicators that 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, self-healing solution that ensures instant life safety event monitoring over a wide geographic area. These new models have the added benefit of a second communications path via Ethernet/IP.

Designed for use in campuses, industrial and commercial facilities, military and government complexes and municipal environments, each Keltron RF780F 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 RF780F wireless transceivers feature eight (8) discrete programmable end-of-line (EOL) inputs.

### Keltron RF780F benefits

- Versatility** - dual path communications technologies enable both radio and Ethernet/IP signaling
- High performance** - delivers messages instantaneously - in less than two seconds
- Cost effective** - easy installation reduces expense; eliminates monthly telephone charges
- Scalable** - multiple routing mesh network provides high capacity growth potential
- Reliable** - unique store-and-forward technology eliminates signal loss
- Code-compliant** - rigorously tested to current industry codes and ready to meet emerging standards

### Keltron RF780F features

The Keltron dual-path radio/IP system is UL listed as a Primary Signaling System. It may be used as the sole method of transmitting fire alarm signals to the receiving location. Other key features include:

- Versatile power options:  
Direct from FACP with and without backup battery; with plug-in transformer
- Integrated supervision of IntelliPro data module
- Ground fault detection for direct device monitoring
- Charger failure reporting
- Synthesized radios increase stability and accuracy
- Programming password for improved security
- 8 programmable, end-of-line (EOL) fire/security inputs
- Power and Trouble LEDs with blink patterns
- Backlit LCD front panel status display
- Graphic user interface (GUI) for programming from a smart phone, tablet or other device
- On-board trouble sounder

### Programmable features include

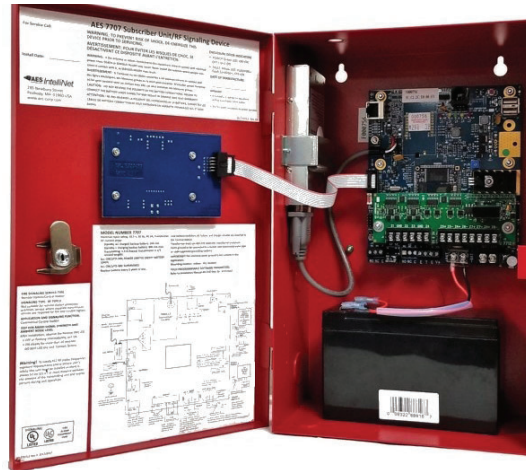
- Check-in time
- Time-to-live (TTL)
- AC fail delay reporting
- Second alarm delay
- Antenna cut delay
- Network/cipher code/account

### Typical Configuration

**UL Fire & Safety Listing**  
 UL 864 10th Edition Standard  
 for Control Units and Accessories  
 for Fire Alarm Systems



Built-in LCD front panel display  
 Shown without typical 2.5db antenna.  
 Higher gain, remote-mount antennas may be used where applicable.



- Dual-path RF/IP technology
- Transceiver 2-5 watts typical, UHF, VHF available
- Smart controller for transceiver and repeater reports alarms, troubles, restorals, low battery, AC status
- 8 EOL fire alarm inputs
- Built-in power supply/ battery charger

### Specifications

8 Zones	8 programmable EOL fire/ burglary inputs	Finish color	Red
Trouble Output	Form C relay, fail secure, rated	Operating temperature	32 to 120°F (0 to 49°C)
Ack Delay/ Antenna cut	24V DC 1A resistive, unsupervised	Storage temperature	14 to 140°F (-10 to 60° C)
Radio Frequency	Standard frequency range is 440-470 MHz, others available	Relative humidity	0 to 93%, non-condensing
Standard output power	2 watts, others available. All radio systems require FCC licensing	Box dimensions (approx.) (excluding antenna)	13" H x 8.5" W x 4.5" D (33cm x 21.5cm x 11.4cm)
Power input AC sources	Transformer UL listed class II 15.5V AC nominal output. 1.9 A max current (40 VA min)	Box weight (approx.)	5.8 lbs / 2.6 kg, excluding battery 13 lbs / 5/9 kg, with 10Ah battery
DC sources (Includes FACP)	24V DC regulated power supply with rechargeable battery 1.9 max current	<b>Options</b>	
Voltage	12VDC nominal	IntelliPro	Satellite/remote dialer data receiver
Current	200 mA standby, w/charged back up battery (1.2 A transmitting) 900 mA standby + charging backup battery (1.9 A transmitting)	Keltron 10R7740	Remote Annunciator
Back-up battery	10-12 Ah, UL recognized lead acid gel cell, size based on configuration (order separately)	<b>UL listing</b>	UL 864 10th Edition Standard for Control Units and Accessories for Fire Alarm Systems
Low battery reporting	Battery is tested every 30 seconds. Reports to supervising station if two consecutive tests are below 11.6 V DC, 60 seconds max.		
AC status reporting	Reports to supervising station after approximately 100-160 minutes without AC power, reports AC power restoration after approximately 100-160 minutes of restored power		

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, 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 changes without notice. For more information visit [www.keltrincorp.com](http://www.keltrincorp.com) or contact us at 781-894-8710. Made in the USA.

