

Keltron RF714F/RF718F Hybrid Radio Transceiver



High Performance

Dual Path Communications Technologies

Scalable

UL-Listed Primary Signaling



Keltron RF714F/RF718F hybrid radio/IP transceivers are a new 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 include the functionality of the Keltron RF774F and RF778F active network radio transceivers and the capabilities of Keltron RF7100 signal converters. Compatible with the Keltron RF7500 Radio Receiver.

The Keltron Hybrid transceiver sends alarm signals from the fire alarm control panel (FACP) to the central monitoring receiver via radio frequency (RF) and/or Internet protocol (IP) AND transmits peer signals via RF or IP. It is a cost effective solution that improves the health of an existing network, starts a new network where there is no RF coverage, and reduces local RF congestion due to geographical conditions.

Designed for use in campuses, industrial, commercial, military, and government facilities and municipal environments, each Keltron hybrid wireless transceiver serves as both a transceiver and repeater to improve the strength and range of the entire network and provide high-integrity communications that ensure every signal is authenticated and acknowledged.

Keltron RF714F/RF718F hybrid transceiver benefits

Versatility - dual path communications technologies enable both RF and 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 standard

Keltron RF714F/RF718F features

The Keltron hybrid 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
- Reset button located on main circuit board
- Programming password for improved security
- 4 programmable, end-of-line (EOL) and 4 polarity reversal zones (RF714F) or 8 EOL zones (RF718F)
- 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
- 2 USB ports
- Integrated Local Annunciator; remote annunciator accessory available

Programmable features include

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

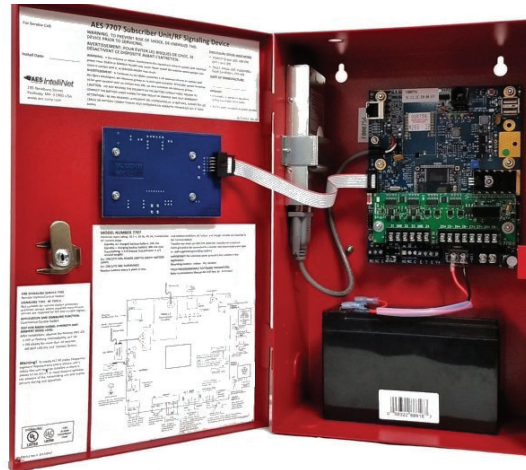
Typical Configuration

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 dry contact zones or 4 dry contact/4 RP zones
- Built-in power supply/ battery charger

Specifications

Zones	<ul style="list-style-type: none"> · 8 isolated dry contact zones or 4x4 option with 4 isolated dry contact zones and 4 isolated reverse polarity zones; 1 zone is reserved for Tamper Switch · Optional 7794A IntelliPro full data module for Contact ID, and Pulse
Trouble output Ack Delay/ Antenna cut	Form C relay, fail secure, rated 24V DC 1A resistive, unsupervised
Radio frequency	Standard frequency range is 440-470 MHz, others available
Antenna	2.5 dB tamper resistant antenna included, mounts on enclosure, and optional remote mounting antenna available
Standard output power	2 watts, others available. All radio systems require FCC licensing
Flexible power input	16.5VAC and battery 24VDC and battery* 24VDC only* *(requires FACPA for isolation)
Back-up battery	10-12 Ah, UL recognized lead acid gel cell, size based on configuration (order separately)
Current consumption	Standby = 0.4A Standby + Charging = 1A Transmitting = 1.4A

Configuration interface
 Web browser capable device accessible via smartphone, tablet, laptop, or PC

Visual indicators

Front panel LCD (2 x 20 alphanumeric character backlit display with automatic turnoff), Buzzer, Power and Trouble LEDs (ALM, Trouble, Tx, Rx, WA), Menu/Silence button

Box

Steel with red paint finish
 32 to 120°F (0 to 49°C)

Operating temperature

Storage temperature

14 to 140°F (-10 to 60° C)

Relative humidity

0 to 93%, non-condensing

Box dimensions (approx.) (excluding antenna)

13" H x 8.5" W x 4.5" D (33cm x 21.5cm x 11.4cm)

Box weight (approx.)

5.8 lbs / 2.6 kg, excluding battery
 13 lbs / 5/9 kg, with 12Ah battery

Options

IntelliPro

Satellite/remote dialer data receiver

Keltron 10R7740

Remote Annunciator

UL listing

- UL 864 Standard for Control Units & Accessories for Fire Alarm Systems, Edition 10
- CAN/ULC S559 Equipment for Fire Signal Receiving Centres and Systems, Edition 2
- FCC-B emissions recognized

Keltron develops and manufactures universally-compatible, UL listed life safety event management systems for multi-building facility and municipal markets. Solutions include Ethernet/IP, cellular, 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.keltroncorp.com or contact us at 781-894-8710.

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