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Datasheet

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KELTRON[®]

Keltron RF740F Dual Path Transceiver



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



Keltron RF740F 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 RF740F 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 RF740F wireless transceivers feature four (4) discrete programmable end-of-line (EOL) and four (4) reverse polarity inputs.

Keltron RF740F 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 RF740F 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
- 4 programmable, end-of-line (EOL) and 4 reverse polarity 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

- 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

4 end-of-line and 4 reverse polarity inputs

Built-in power supply/ battery charger

Specifications

4 Zones	4 programmable EOL and 4 reverse polarity 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	Options	
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)	UL listing	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, 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.keltrincorp.com or contact us at 781-894-8710.

