



Bird Technologies

RescueLine Signal Booster

800 MHz Series

Bird Technologies, TX RX Systems Brand RescueLine Signal Booster, the first signal-booster system that fully complies with the IFC 2009 and NFPA 1 2009 codes which makes it the state-of-the-art electronic lifeline for first responders inside a building.

To comply with the new International Fire Code and National Fire Protection Association (IFC/NFPA) standards, the Bird RescueLine delivers on a key objective: ensuring that first responders have reliable radio communications in large structures. It features a 24-hour battery back-up and an alarm interface providing all five required alarm conditions, including antenna system failure (up or down link) and 70-percent low battery. The Bird RescueLine is compatible with standard fire-alarm panels.

PROBLEMS ▶ SOLUTIONS

Must be compliant with IFC/NFPA Codes

- ▶ NEMA 4 cabinets
- ▶ Signal booster malfunction alarm
- ▶ AC/DC fail alarm
- ▶ Low battery alarm
- ▶ Antenna Circuit malfunction
- ▶ Supervised alarm Circuits
- ▶ Fire alarm compatibility
- ▶ 24 hour battery option

APPLICATIONS

Valued for its ability to allow public-safety personnel to communicate during critical events even while power is unavailable.

Delivers life-critical in-building radio communications in challenging environments.

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Output Level Control (OLC) Circuit Monitors and Controls RF Output Power

Maintains maximum required output power while preventing damage and excessive emissions per FCC requirements

Easy-to-read LED bar graph

Unique OLC DataLog feature facilitates system maintenance and optimization

Decoupled RF Test Points For Simplified Service

Allow fast system measurements in both uplink and downlink directions

Monitor signals for performance optimization

Integrated design facilitates non-intrusive measurements

Secure, Non-Vented NEMA Enclosure Suitable for Extreme Indoor and Outdoor Environments

Setup is Performed Through a User Friendly Interface

No Tools Required

Optional Features Available

Comm Card II for remote communications and control

Fiber optic link interface*

Redundant PA configuration*

-48 VDC input*

DC Backup Interface Accepts +24 to +27 VDC and optional -48 VDC

Microprocessor Controlled Fault Monitoring and Alarming Ensures Reliable Operation and Flexible Configuration

Control system continuously monitors parameters including voltage, current, temperature and OLC activity

LEDs on each module quickly announce source of fault

Simple, back-lit liquid crystal display (LCD) and switch control

Fault triggers annunciation on panel, alarm contact closure and internal recording of failed subsystem

Card Cage Modularity

Easy "slide-in" replacement process

Facilitates ease of service and system configuration

*Contact Factory for these models

High Performance Bandpass Filters

Configured to customer requirements and addresses many specifications requiring custom passbands

Models available with passbands that range from 3 MHz (NPSPAC with excellent out-of-band rejection) to 18 MHz for full band coverage

Programmable Gain Setting

Ease of initial configuration via front panel

When used in conjunction with OLC DataLog, simplifies post installation adjustments

SPECIFICATIONS

Frequency Range	806-869 MHz
Nominal Gain (dB)	+80 dB
Gain Adjustment	Programmable attenuation, 0-30 dB, 0.5 dB steps
Output Level Control Dynamic Range	+55 dBm minimum, with no attenuation
Maximum Input Level	0 dBm
Maximum Output Power	+30 dBm (single carrier)
RF Sampler	PA Output sampler
Noise Figure (without attenuation)	3.5 dB maximum
Propagation Delay	<1 μ s
Operating Temperature Range	-30°C to +50° C
Nominal impedance	50 ohms, <1.5:1 VSWR
Input/Output connectors	N female
RF Sampler Connectors	BNC female
AC Power Input	100-240 VAC; 50-60 Hz
DC Input Voltage	+24 to +27 VDC -48 VDC optional
Unit Power Consumption (AC/DC)	<100 VA
Nominal Size	24" x 24" x 8"
Net Weight	<80 lbs.
FCC Certification**	EZZ5PI031202
Industry Canada Certification**	1940A-PI031202



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