FEDERAL SIGNAL

► Model RF100UX and RF100HX

UltraVoice® Hazardous Area Siren/Speaker

Federal Signal is introducing a new innovative compact siren/speaker system. The RF100X is an addition to our current family of outdoor and indoor warning products. These warning products can work together as an integrated system or standalone for special applications. As an integrated system, the RF100X includes an UltraVoice® control board which performs the same functions as our full line of UltraVoice products. The RF100X can deliver the same high quality voice announcements as our Modulator and DSA speaker systems. As a standalone device, the RF100X can be activated from an RF control point using 2-tone, DTMF, or Federal Signal's line of digital encoders. The RF100X includes inputs for local activation and remote activation of other warning system devices. The RF100X uses our NEMA4x siren/speaker enclosure which contains a 2-way radio for control and supervision. In addition, a high powered amplifier, power supply and UltraVoice control board are contained within the enclosure.

The RF100X is powered from 120/240 Vac or 24 Vdc. The siren/speaker can be ordered with either a VHF or UHF radio. An external antenna connection provides RF communication to our complete line of system control products including the SS2000+ web enabled controller, our Commander PC controller (Commander®), and our cloud based controller (CommanderOne®) with severe weather auto-activation capabilities. The RF100X has built-in high powered siren tones and can store digital voice or tone messages and can provide live PA. The RF100X provides outputs to drive external devices such as strobes or LED signaling devices. When powered from AC, there are (4) AC outputs and one DC output. When powered by 24 Vdc the AC outputs are non-functional. The RF100X can be combined with DS100 amplified speakers to provide increased sound levels in one or multiple directions. The RF100X is a flexible and unique product. Contact Federal Signal sales to discuss your application.
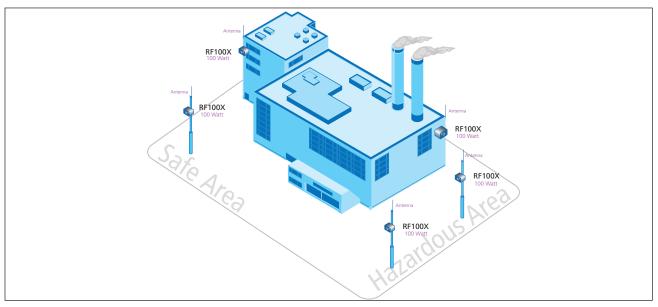
APPLICATIONS

- Industrial facilities for chemical release, security and evacuation purposes
- Water treatment facilities where hazard gases are present
- Chemical locations for warning and evacuation alerts
- Oil and gas sites for general announcements
- Gas pipeline locations for alerts

FEATURES

- Compact self-contained C1D2 siren/speaker
- Small size with rugged NEMA4x construction
- Secure communications using Commander 128/256 bit encryption
- Integrated UHF or VHF 2-way radio requires external mount
- Locally or remotely activated
- Supervised using Commander 2-way
- Outputs to drive external devices i.e. strobes
- Configurable volume control
- Programming over the air

- Inputs for standalone and remote pushbuttons
- Flexible mounting arrangements including:
    - Wall/ceiling mount standard
    - Small or large pole mount options
    - Omni-directional mount option
- Combine with DS100X for multi-direction system
- UL and cUL Listed for Class I, Division 2; Class II, Division 2; Class III
- Powered from 120/24 Vac or 24 Vdc

Hazardous Area Siren/Speaker (RF100X)

SPECIFICATIONS

- Maximum Sound Pressure Level 120 dB (± 2 dB) @ 10' (130 dB (± 2 dB) @ 1 m) @ 100 W
- Operating Temperature: -40°F to 104°F / (-40°C to 60°C)
- DTMF, MSK, 2tone or EAS decoders
- AES and time encryption
- Seven standard warning signals
- 4000+ digitally stored voice/tone messages
- Four, 1 Amp, AC powered solid state relay outputs
- One 5 Amp, DC powered solid state relay output
- Small size with rugged construction (W x L x D) 9.4 in x 8 in 12.6 in (239 mm x 203 mm x 320 mm)
- RF100X Net Weight: approx. 21 lbs

HAZARDOUS LOCATION RATING: RF100X
T-CODE AT MAXIMUM AMBIENT TEMPERATURE, °C

- Hazardous Location: 40°C
- Class I, Division 2, Groups A, B, C, D: T5
- Class II, Division 2, Groups F, G: T6
- Class III: T6

HOW TO ORDER

Description	Part Number
Radio Controlled Siren/Speaker (UHF)	RF100UX
Radio Controlled Siren/Speaker (VHF)	RF100HX
Omni Antenna (x = frequency dependent)	OMNI-X
Antenna bracket pole	AMB-P
Antenna bracket wall	AMB-W
Small (6" or less) Pole Mount Bracket	I-IP100-PM
Large (over 6") Pole Mount Bracket	I-IP100-PMW
Omni Directional option for IP speaker	I-IP100-OMNI

Commander is a registered trademark of Federal Signal Corporation.

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