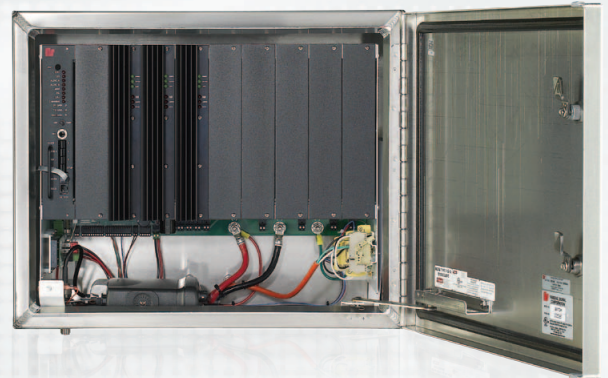


UltraVoice® Electronic Siren Controller

Features

- Control for Giant Voice type mass notification systems
- High quality voice notification
- Highly efficient amplifiers
- Military, industrial, urban voice and tone notifications
- 7 built-in warning signals
- Up to 250 stored messages, 17 hours of available audio
- Decodes single-tone, two-tone, DTMF and AFSK digital
- Easily managed by Federal Signal Commander Software



The Federal Signal UltraVoice® controller combines micro-processor based system control with highly efficient amplifiers to deliver optimized tones and voice capability for electronic sirens. The UltraVoice controller can generate and amplify single or dual frequency warning tones and comes with seven pre-set warning signals. In addition, the controller has been designed specifically to reproduce high quality live or pre-recorded-voice capability.

The controller includes a NEMA 4X aluminum cabinet housing the control module, up to eight 400 watt amplifiers, and a NEMA 3R aluminum battery cabinet. The unit may be equipped with a plug-in programmable receiver module, utilizing DTMF or two-tone sequential activation protocols. A digital voice option can be added by plugging in a single mini SD card which can store up to 250 messages.

The UltraVoice Controller is a two-way communication system. A transceiver allows the unit to report status back to a central control point utilizing DTMF or the Federal Commander Digital System protocol. Two transceiver ports are available for radio repeating or when using multiple frequencies.

The two-way option provides information on the following conditions:

- AC power
- Battery voltage
- Charger operation
- Activation current
- Mode of operation
- Amplifier voltage and current
- Signal A
- Signal B
- Quiet test (Speakers & Amps)
- Intrusion
- Local activation
- SD card status

UltraVoice® Electronic Siren Controller

Specifications

Power

Input Voltage	120 or 240VAC ±10% 50-60 Hz Single-phase (two separate models)
Input Current	7 A Max.
Battery Input Voltage	24 Volts (nom.)
Operating Voltage	24VDC
Standby Time	Greater than 7 days
Continuous Signaling Time	30 minutes (max.)

Control Module

Signal duration (auto reset)	3 minute standard
Microphone Input Impedance	10K Ohms
Audio Distortion	1% THD max, <10% voice mode-below clipping
Maximum Load	600 Ohms
Audio Out	.25 to 2.0 Volts P-P 600 Ohms
Audio In	.10 to 2.0 Volts P-P 600 Ohms
Contact Closure	(min) 500ms < 2k Ohms
Relay Output	30 VDC, 15 A

Signaling Format

AFSK	1200 baud, MSK (Minimum Shift Key) modem type Usable decode sensitivity: 12 dB(C) SINAD (min)
DTMF	3-12 standard digits

Two-Tone Sequential

Frequency Range	282 Hz-3000 Hz (non-CTCSS) 400 Hz-3000 Hz (CTCSS)
Tone Timing	.5 sec-25 sec min., 8 sec max
Intertone Gap	400 ms (maximum)
Tone Accuracy	±1.5%
Tone Spacing	5% preferred, 3% minimum

Single Tone

Frequency Range	282 Hz-3000 Hz
Tone Timing	.5 sec. - 8 sec. maximum
Tone Accuracy	±1.5%
Tone Spacing	5.0% preferred, 3% minimum
Remote Activation Inputs	Eight
Sensor Inputs	Four

Signal Activation Information

Signal	A/B Tone Frequency Range	Sweep Range
Wail	400/480-850/1020	13 sec.
Pulsed Wail	400/480-850/1020	1.5 sec./13 sec.
Steady	850/1020	N.A.
Pulsed Steady	850/1020	1.5 sec.
Alternate Steady	850/1020	1.5 sec.

UVTR: AC Primary Operation

Operating Voltage	210-264 VAC single phase 50/60Hz, 5.5 KVA
Dimensions	27.0" x 11.5" x 13.6" (686 mm x 292 mm x 345 mm)
Weight	230 lbs (103.5 kg)

Amplifier Module

Frequency Response (300 to 3kHz)	+/- 3 dB(C) (ref. 1kHz)
Output Voltage (to speaker drivers)	70 Vrms (nominal)
Input Impedance (per amplifier)	100k Ohms

Environmental

Operating Temperature	-30°C to 65°C
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Dimensions

Control Cabinet	19" x 23.5" x 11.2" (483 mm x 597 mm x 284 mm)
Battery Cabinet	28" x 18" x 15.2" (711 mm x 457 mm x 386 mm)

Weight

Net Weight UVTD (No Amps)	170 lbs (77.13 kg)
Net Weight UV400	4.12 lbs each (1.9 kg)

Battery Requirements (Customer Supplied)

- 2 batteries are required when ordering an Ultravoice Controller with a MOD1004B, MOD2008B, MOD3012B, or MOD4016B
- 4 batteries are required when ordering an Ultravoice Controller with a MOD5020B, MOD6024B, or MOD8032B

Order Information

UVTD	Siren control, two-way digital, no radio
UVTDH, UVTDU	Siren control, two-way digital, VHF (136-174), UHF (403-470)
UVTD-IP	IP-enabled, two-way electronic controller (broadband radio and SmartMsg software sold separately)
UVTD-LL	Siren control, two-way, landline

- Motorola Vertex VX-4500 transceiver
- Standard models are 120 VAC, add "240" to model for 240 VAC versions
- Contact factory for low-band two-way models
- Batteries and antenna not included
- Stainless steel (S) control cabinets are also available

Options

DVSD	Digital voice mini SD card, 250 messages, 1000 minutes
FSPWARE	Windows® programming software (Two-tone & DTMF)
FS-PL1	Tone coded and digital coded squelch decoder
SINAD	Signal-to-noise radio monitor (See Federal Commander Digital System for two-way digital software models.)
UV400	400 watt amplifier, required with UV controllers
TB-LL	Telco Base, Landline
ES-PROG-DTMF	Two-way DTMF programming



FEDERAL SIGNAL
Safety and Security Systems

Protecting people and our planet

