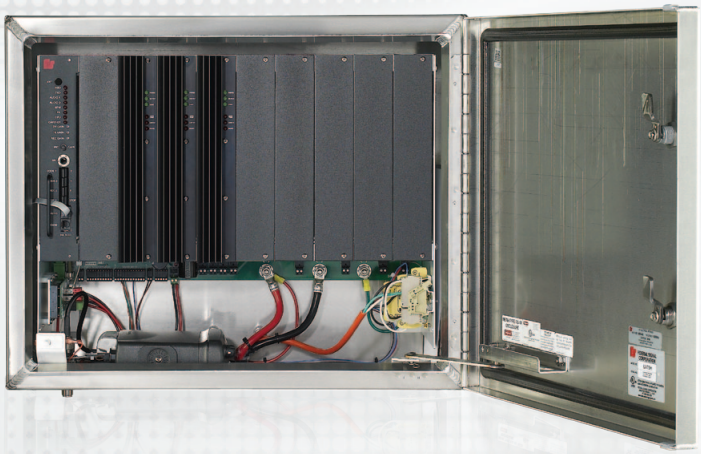
UltraVoice® Electronic Siren Controller

Features

- **7 built-in warning signals**
- **Up to 250 stored message, 17 hours of available audio**
- **Decodes single-tone, two-tone, DTMF and AFSK digital**
- **Quiet test standard**
- **Up to 8 controller zones**
- **Stackable siren functions**
- **Distinct dual tone capacity**
- **Highly efficient pulse width modulated amplifiers**
- **Windows®-based programming software (optional)**



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 cabinet housing the control module, up to eight 400 watt amplifiers, and a NEMA 3R 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.

Two-way Status System

The UltraVoice Controller can also be 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

DATA SHEET

FEDERAL SIGNAL
Safety and Security Systems

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2645 Federal Signal Drive, University Park, IL 60484 708.534.4756 Fax: 708.534.4874 www.alertnotification.com

UltraVoice® Electronic Siren Controller
Specifications

Power	
Input Voltage	120 or 240 VAC +/- 10% 50-60 Hz Single-phase (two separate models)
Input Current	7A, Max.
Battery Input Voltage	24 Volts (nom.)
Operating Voltage	24 VDC
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 in X 11.5 in X 13.6 in
Weight	230 lbs (103.5 kg)

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

Enviromental	
Operating Temperature	-30°C to 65°C

Dimensions	
Control Cabinet	19 in X 23.5 in X 11.2 in
Battery Cabinet	28 in X 18 in X 15.2 in

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

BATTERY REQUIREMENTS (CUSTOMER SUPPLIED)

- When ordering a UV or UVT(D) with a MOD1004, MOD2008, or MOD3012, 2 batteries are required.
- When ordering a UV or UVT(D) with a MOD5020 or MOD6024, 4 batteries are required.
- When ordering a UV or UVT(D) with a MOD6048, 8 batteries are required.
- When ordering a UV or UVT(D) with a MOD4016, 2 batteries are required.

ORDER INFORMATION

UV	Siren control, one-way, no radio
UVL, UVH, UVU	Siren control, one-way, VHF low or high, UHF brands
UVTD	Siren control, two-way digital, no radio
UVTDH, UVTDU	Siren control, two-way digital, VHF (150-174), UHF (403-474)
UVTD-IP	IP-enabled, two-way electronic controller (broadband radio and Codespear software sold separately)
UVTD-LL	Siren control, two-way, landline

- Standard receiver is Motorola®, CDM750
- 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, 17 hours
FSPWARE	Windows® programming software (Two-tone & DTMF)
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

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