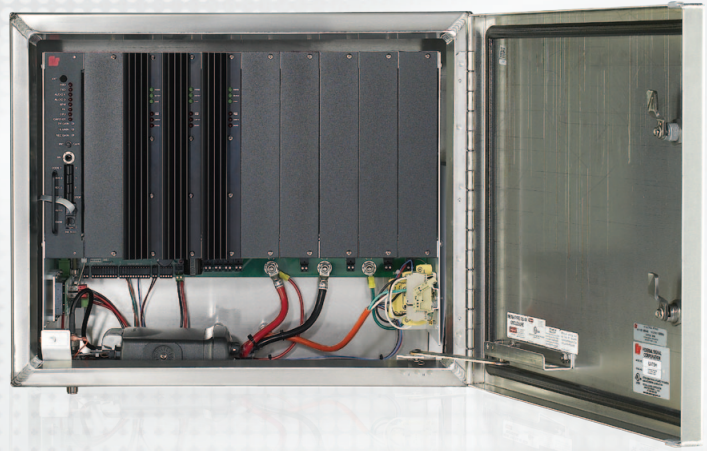


UltraVoice® Electronic Siren Controller

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



Safety and Security Systems

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DATA SHEET

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 |

Environmental

| | |
|-----------------------|---------------|
| 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 |
| UVT(D) | Siren control, two-way digital, no radio |
| UVT(DH), UVT(DU) | Siren control, two-way digital, VHF (150-174), UHF (403-474) |
| UVT(D-IP) | IP-enabled, two-way electronic controller (broadband radio and Codespear software sold separately) |
| UVT(D-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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