

► Model UV

UltraVoice® Electronic Siren Controller

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 over 4000 voice/tone 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 Commander Software System protocol. Two transceiver ports are available for radio repeating or when using multiple frequencies.

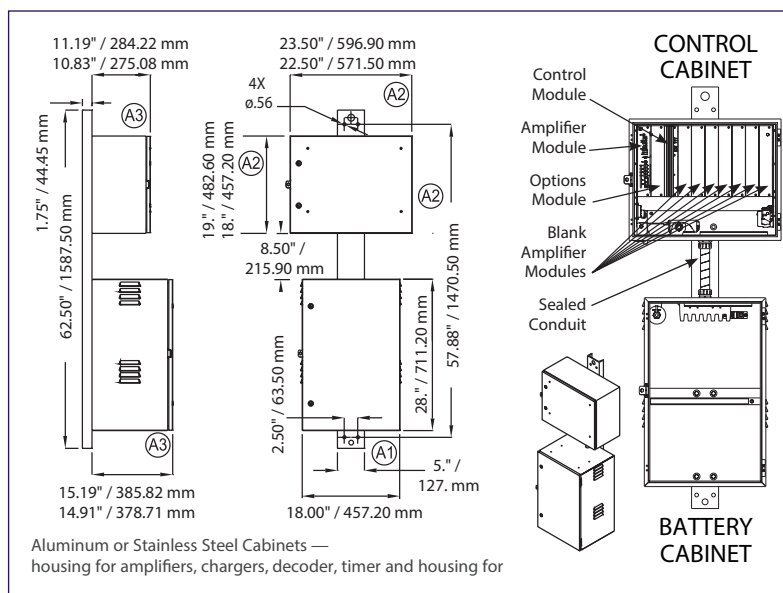
The two-way option provides information on the following conditions:

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

FEATURES

- 7 built-in warning signals
- Capable of storing over 4000 voice/tone messages, 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)

UltraVoice® Electronic Siren Controller (UV)



SPECIFICATIONS

Operating Temperature**:	-40°F to 149°F / -40°C to 65°C
Input Voltage:	120/240VAC $\pm 10\%$, 50/60Hz single-phase (two separate models)
Input Current:	7 A Max.
Battery Input Voltage:	24 Volts (nom.)
Operating Voltage:	24VDC
Standby Time:	> 7 days
Continuous Signaling Time:	30 min.
Control Module:	
Signal Duration (auto reset):	3 min. max
Microphone Input Impedance:	10k Ohms
Audio Distortion:	1% THD max.
Maximum Load:	600 Ohms
Contact Closure:	(min) 500ms <2k Ohms
Amplifier Module:	
Frequency Response:	(300 to 3 kHz) ± 3 dB (ref. 1kHz)
Output Voltage (Tone and PA): (to speaker drivers)	70 Vrms (nom.)
Input Impedance:	(per amplifier) 100k Ohms
Enclosures:	
Control Cabinet:	Type 4X
Battery Cabinet:	Type 3R
Net Weight:	170 lb (77.13 kg) (minus amplifiers)
UV400 Amplifiers Weight:	4.12 lb (1.9 kg)

** HTR2 or HTR4 battery heater option required for -40°C rating.

Standard Tones

Tone	A/B Tone Frequency Range	Sweep Rate (seconds)
Wail	400/480-850/1020	13.0
Pulsed Wail	400/480-850/1020	1.5 /13.0
Alternate Wail	400/480-850/1020	1.5/13.0
Steady	850/1020	N/A
Pulsed Steady	850/1020	1.5
Alternate Steady	850/1020	1.5

HOW TO ORDER

Contact our Federal Signal Sales Engineers to design a system that meets your specific requirements.

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

- Standard receiver is Kenwood
- Standard models are 120VAC, add "240" to model for 240VAC versions
- Contact factory for low-band two-way models
- Batteries and antenna not included
- Aluminum cabinets standard, Stainless steel (S) control cabinets optional

OPTIONAL ACCESSORIES

Description	Part Number
Digital voice mini SD card, 250 messages, 17 hours	DVSD
Windows® programming software (Two-tone & DTMF)	FSPWARE
Commander® Software System, *10, 25, 255, or 512 Site License	SFCD*
400 watt amplifier, required with UV controllers	UV400
Telco Base, Landline	TB-LL
Two-way DTMF programming	ES-PROG-DTMF
210-264 VAC Transformer/Rectifier	UVTR
Battery Requirements: Customer must provide necessary batteries. Call for assistance with specific system requirements.	

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