

# UltraVoice® Indoor Controller

## Features

- **Public address**
- **Seven standard tones**
- **Up to 250 stored messages, 17 hours of available audio**
- **Radio, ethernet or landline controlled w/ two-way status monitoring**
- **600 Ohm, line-level, 33 Ohm audio outputs, & 4 programmable relays (with optional UVARM)**
- **70 Vrms audio output standard (25 Vrms optional)**
- **Type 1 enclosure**
- **128-bit encryption**
- **Batteries and local microphone included**
- **Line supervision of distributed appliance network**
- **Optional Windows based activation and status monitoring**
- **UL and cUL listed**



The Federal Signal UltraVoice® Indoor Controller (UVIC) is a remote terminal unit (RTU) specifically engineered for indoor mass notification. The combination of micro-processor based system control with highly efficient amplifiers enables the delivery of optimized tones and voice to distributed speakers, or to existing public address (PA) systems.

The UVIC has been uniquely designed for high quality live or recorded-voice reproduction. The UVIC also offers the unique capability for an operator to record and broadcast urgent message notifications. Unlike any controller available today, the sound output levels can be easily regulated using our distinctive PC-based Dynamic Volume Control feature, helping to optimize indoor audible alerts and notifications. A digital voice option can be added by plugging in a single mini SD card which can store up to 250 messages with 17 hours of audio.

The RTU cabinet houses the control module, up to two 400 watt highly efficient (Class D, pulse width modulated) amplifiers, and includes two advanced, valve-regulated, lead acid-absorbed glass matt (VRLA-AGM) batteries, providing over 30 minutes of operational battery backup.

The UVIC is a two-way digital communication system, with a Motorola Vertex VX-4500 transceiver for wireless communication, allowing the unit to communicate status to a central point via the Federal Commander Digital System. UltraVoice IC utilizes secure digital data transfer methods, including 128-bit encryption, to ensure no malicious or accidental operation of the system. Our two-way status system provides information on the following conditions: AC power, battery voltage, charger operation, quiet test, activation current, intrusion, amplifier voltage & current, line supervision, local activation and SD card status.

Federal Signal's UVIC offers pre-integrated, secure, reliable mass notification.

# UltraVoice® Indoor Controller

## Specifications

Electrical	
Input Voltage	120 or 240VAC +/- 10% 50-60Hz Single-Phase
Input Current	5A AC, 45A DC Max.
Battery Input Voltage	24 Volts (nom.)
Operating Voltage	24VDC
Standby Time	Greater than 3 days (with 5 minute full signal reserve)
Continuous Signaling Time	30 minutes (max.)
Controller Features	
Standard	8 remote inputs, 4 remote sensor inputs, & 4 direction sensor inputs
Standard	12 audio outputs per amplifier
Signal Duration (auto reset)	3 minutes standard
Microphone Input Impedance	10K Ohms
Audio Distortion	<10%
Maximum Load	600 Ohms
Audio Out	.25 to 2.0 Volts P-P 600 Ohm
Audio In	.10 to 2.0 Volts P-P 600 Ohm
Contract Closure	(min) 500ms < 2K Ohms
Relay Output	30VDC, 15A
Signal Formats	
Digital	MSK (Minimum Shift Key) 1200, N, 8, 1, Synchronous
DTMF	3-12 digits
Remote Activation Inputs	8
Amplifier Module	
Frequency Response (300 to 3 KHz)	+3 dB (ref. 1kHz)
Output Voltage	(to speaker drivers): 70 Vrms (nominal)
Input Impedance (per amplifier)	100k Ohms
General	
Operating Temp	-30°C to +65°C
Dimensions (HxWxD)	
Control Cabinet	31"h x 17.36" w x 13.62"d (787 mm x 441 mm x 346 mm)
Weight	
Net Weight UVICH (no Amps)	64.55 lbs (29.27 kg)
Net Weight UV400	4.2 lbs (1.90 kg)
Net Weight Batteries Qty (2)	58.97 lbs (26.75 kg)
Net Shipping Weight	200 lbs (90.7 kg)

Order Information	
UVIC	Indoor Controller, No Radio
UVICH	Indoor Controller, VHF (136-174) MHz
UVICU	Indoor Controller, UHF (403-474) MHz
UVIC240	Indoor Controller, 240 VAC, No Radio
UVIC-IP <sup>(1)</sup>	Indoor Controller, IP-enabled
UVIC-LL	Indoor Controller, Landline

(Standard Models - two-way Digital)

Standard receiver is Vertex VX-4500 J/F 12 10891

Standard Models are 120 VAC, add "240" to model for 240VAC versions

Contact factory for Additional RF Options

Antenna not included

<sup>(1)</sup>SmartMsg software sold separately

Options	
DVSD	Digital voice mini SD card, 250 messages, 1000 minutes
FSPWARE	Windows® programming software (two-tone & DTMF)
TB-LL	Telco Base, Landline
SINAD	Signal-to-noise ratio monitor
UVIC25ST	Stepdown transformer (70 Vrms to 25 Vrms)
UVIC25SD	Dual Stepdown transformer (70V-25V, 2 Amps)
UVARM	UltraVoice audio relay module Specifications: Voltage: 13.5-30 Input Current: 200 ma. max. Balanced 33 Ohm output: Adj. from 0.2-1.9 Vrms. Balanced 600 Ohm output: Adj. from 0.2-3 Vrms.or -12 to +11 dBa Single Ended Line-Level: Adj. from 0.2-3 Vrms. Relay Outputs: (4) programmable relay
UVLOC	UltraVoice Local Operating Console
UVLOC-IM	UltraVoice Local Operating Console-interface module (order (1) per RTU)
UV400	400W amplifier

See Federal Commander Digital System data sheet for software information.

