

Indoor Speaker Unit

The Indoor Speaker Unit (ISU) is an integral part of the ATI system. The ISU provides either 400 or 800 Watts of audio output power for reliable indoor alert tone notification, pre-recorded messages and public address in emergency situations. The unit is monitored, controlled and activated by the ATI Control Station, or can operate stand-alone using the Local Control Panel option.

Standard Equipment

- NEMA-4/3R enclosure
- Remote Terminal Unit (RTU) controller board
- Temperature-compensated battery charger
- Power on/off circuit breakers and intrusion switch
- Single or dual 400 Watt Class D Amplifier
- Conventional VHF or UHF radio and mounting hardware
- 25 volt and 70 volt audio output line for driving long speaker wire runs with minimum losses



ISU 400



ISU 800

Key Features

- Simple and compact hardware design
- Field-proven reliability
- Exceptional acoustic performance and intelligibility
- Unique, compact and highly-efficient Class D amplifier
- 400 or 800 Watts of audio output power
- Supports 30 minutes of continuous activation
- Built-in tone generator providing for eight standard, pre-configured tones
- Up to 255 pre-recorded voice messages and 80 hours of recording time
- Local and remote testing and reporting with silent test option
- Standard VHF and UHF radio receives and transmits FSK, DTMF and Two Tone Sequential (TTS) data signals
- Automatic gain control for consistent output volume
- Very low standby power requirements
- Message encryption and security coding prevent unauthorized system activations
- Conformal-coated printed circuit boards for operating in harsh environments
- Temperature-compensated battery charger ensures batteries are at full capacity
- Meets UFC and FEMA requirements
- FM-listed to UL864 and tested to meet NFPA 72
- Redundant communication options, including IP/Ethernet, satellite, and cellular

Optional Features

ATI Systems offers fully customizable solutions, including the following features:

- Custom alert tones and digital, pre-recorded messages
- Local control panel upgrade with microphone, LCD display and controls
- Digital and trunked radio upgrade
- Flexible, redundant communication options including IP, Ethernet, twisted pair/phone line, cellular, satellite
- Dry contact and external audio input
- Strobe light and LED sign output options
- Choice of speaker type and configuration
- NEMA-4/3R stainless steel enclosure upgrade

Specifications for Model # ISU

General	
Operation	Tested and proven in harsh environments
Humidity	0 to 95%, non-condensing
Standby without AC	2 days (18 Amp-Hour batteries) or 3 days (33 Amp-Hour batteries)
Maximum Alarm Duration	30 minutes
Enclosure Weight	62 lbs (without batteries)
Enclosure Size	23"H x 23"W x 10"D
Electrical	
AC Input Voltage	120 VAC or 240 VAC 50/60 Hz
Maximum Operating Current	3.5 Amps @ 120 VAC or 2 Amps at 240 VAC
Communication	
Signaling Method	Encrypted FSK, DTMF, TTS
Radio Output Power	1 to 50 Watts
Amplifier	
Audio Output Power	400 or 800 Watts RMS
Audio Bandwidth	250 Hz – 5 kHz
Class of Operation	Class D
Output Regulation	< 1 dB, no load to full load
Operating Voltage Range	21 to 32 VDC
Protection	Protected against primary over current, output over current or shorts and output voltage spikes
Controller	
Local Testing	Six pushbuttons for local testing
Radio Interface	Universal radio interface and power connectors
Expansion Ports	RS485, RS232
Other Ports	Optional IP
Other Features	Built-in AGC circuit, tone generator and digital adjustable audio gain
Standby Power without Radio	< 200 milliamperes
Batteries	
Requires two 12VDC, 18 Amp-Hour batteries (400W) or two 12VDC, 33 Amp-Hour batteries (800W)	

All information and specifications are subject to change without notice, and may contain typographical or other errors.