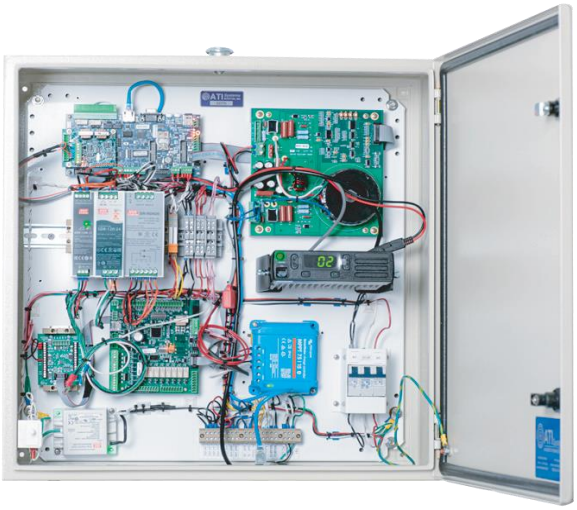
ISU

Indoor Speaker Unit

ATI's Indoor Speaker Unit (ISU) delivers reliable alert tone notification, pre-recorded messages and public address for emergency situations indoors. It is equipped with 400 Watts of audio output power, with the optional upgrade to 800 Watts. The ISU is capable of driving multiple zones of audible and visual alerts such as speakers and strobes. The unit is monitored, controlled, and activated by an ATI central control unit, such as the REACT5000, or can operate as a standalone using the Local Operating Console (LOC) option.*



ISUs can support multiple simultaneous communication paths to ATI control units to provide the most robust, reliable notification system available. In addition, our ISUs include battery backup systems as AC power is often lost during an emergency.* Integratopm with external Public Address (PA), Fire Alarm Control Panel (FACP), and/or Heating, Ventilation, and Air Conditioning (HVAC) systems made simple using our flexible, configurable interface.

Key Features

- Excellent acoustic performance and voice intelligibility
- Cutting edge computing power and enhanced security with a 32 -bit ARM CPU
- SSL/TLS security standards: including AES, RSA, 3DES, ARC4, SHA1, SHA2, MD2, MD4 and MD5
- Text to speach capabilities
- 400W amplifier (800W optional upgrade) to drive 25/70 - volt speakers
- Conformal-coated printed circuit boards for operating in harsh environments
- Message encryption and security coding to prevent unauthorized system activations
- Local/remote testing and reporting including "silent" testing
- Temperature-compensated battery charger and power On/Off circuit breakers
- Very low standby power requirements and 60 minutes of continuous activation
- Flexible and redundant communication methods including IP, twisted pair/telephone cable, fiber optic, cellular and satellite*
- Built-in tone generator providing 10 standard, pre-configured tones; up to 255 pre-recorded voice messages and 100 hours of recording time
- Automatic gain control for consistent output volume

* Additional hardware/firmware may be required.

PHYSICAL ATTRIBUTES	Standard Enclosure	NEMA-4/3R Enclosure u
Length:	23.625"	28"
Width:	23.625"	22"
Depth:	10"	15"
Weight (without radio/batteries):	96 lbs (400W) 102 lbs (800W)	102 lbs (800W)
ENVIRONMENTAL CHARACTERISTICS		
Temperature :	-40°C to +55°C	
Humidity:	0 to 95% non-condensing	
ELECTRICAL CHARACTERISTICS	**400W Amplifier**	**800W Amplifier**
Supply Voltage:	120VAC 60Hz, 240VAC 50Hz	120VAC 60Hz, 240VAC 50Hz
Supply Current Max:	2A (120v)/1 A (220V)	2A (120v)/1 A (220V)
Standby Current:	<550mA typical §	<550mA typical §
Standby Time (without AC):	48 hours§	48 hours§
Activation Time Max:	60 minutes (steady tone, full power) §	60 minutes (steady tone, full power) §
Radio Power Supply:	12V DC, 12A max*	12V DC, 12A max*
COMMUNICATION I/O		
Communication (to ATI units):	UHF/ VHF RF, IP, Ethernet-over-Fiber, Telephone/ Twisted - DSL, Cellular, and Satellite	
RS485/RS232 Port:	1 maximum (either RS485 or RS232)*	
Signaling Inputs:	8 maximum (configurable)*	
Signaling Outputs:	8 maximum (configurable)*	
Audio Out (for PA or FACP):	Configurable 300/600 ohm balanced or unbalanced*	
PRE-RECORDED MESSAGES/TONE CHARACTERISTICS		
Alert Tones:	10 pre-configured alert tones	
Recorded Messages:	255	
Recording Time Max:	100 hours (depends on recording content)	
AMPLIFIER CHARACTERISTICS	**400W Amplifier**	**800W Amplifier**
Speaker/Strobe Zones:	4 unmonitored max, 2 monitored max	4 unmonitored max, 2 monitored max
Output Voltage:	25V, 70V	25V, 70V
Power max (audio/strobe):	400W RMS	800W RMS
Audio Bandwith:	250Hz to 5kHz	250Hz to 5kHz
Output Regulation:	< 1dB no load to full load	< 1dB no load to full load

* Additional hardware/firmware may be required.
§ Assuming 2 – 33AH batteries with radio communication and 1 LOC

FEMA GSA Schedule OSHA NFPA UL