ATI Systems
ACOUSTIC TECHNOLOGY, INC.

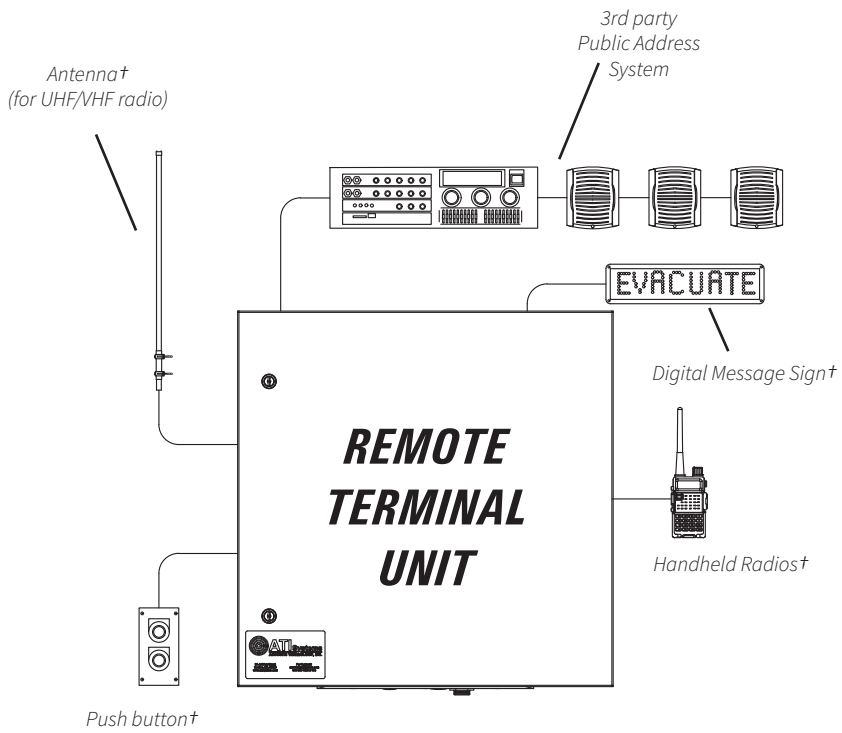
RTU

Remote Terminal Unit

ATI's versatile Remote Terminal Unit networks a wide variety of 3rd party input and output devices with an ATI central control unit, such as the REACT4000 or REACT5000. Input from devices such as wired or wireless push buttons, sensors and fire panels can be configured to trigger system activations. The RTU output signals can control a plethora of devices such as traffic light controllers, strobe lights, gate control units, radio repeaters and digital message signs. In addition, the RTU can supply line level audio to provide audible alerts or live voice to external PA systems or radios.

RTUs are suitable for indoor use with our standard enclosure, or outdoor use with our NEMA-4/ER enclosure upgrade.*

RTUs can support multiple simultaneous communication paths to ATI control units to provide the most robust, reliable notification system available. In addition, our RTUs include battery backup systems as AC power is often lost during an emergency.* ATI offers a solar panel option to charge the batteries where AC is not available or practical.



*Example of RTU Configurations**

Key Features

- Supports 60 minutes of continuous activation*
- Built-in tone generator providing 10 standard, pre-configured tones; up to 255 pre-recorded voice messages and 100 hours of recording time
- Up to eight 10 Amp/ 250 VAC relay outputs and up to eight optically isolated inputs*
- Four configurable analog data inputs*
- Configurable balanced/unbalanced line level audio output*
- Wired pushbutton option supervises up to 10 directly wired buttons (expandable in groups of 10)*
- Wireless pushbutton option supervises up to 16 wireless buttons using 900 MHz spread spectrum technology*
- Local and remote testing and reporting with silent test option
- 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

**Additional hardware/firmware may be required.*

†Sold separately

RTU CONFIGURATION OPTIONS

Possible RTU Inputs

Wired Pushbuttons†

Wireless Pushbuttons†

Weather Stations†

Local Operating Consoles†

REMOTE TERMINAL UNIT

Possible RTU Outputs

Existing Traffic Gate Controllers

Existing PA Systems

Existing Fire Alarm Control Panels

Existing Traffic Light Controllers

Existing Handheld Radios†

Strobes/Obstruction Lights†

Digital Message Signs†

This graphic depicts the many possible configurations of Remote Terminal Unit available from ATI.
See next page for pre-configured RTU options.
Additional hardware and/or firmware may be required.
†Peripherals sold separately.
Custom configurations are also available - Contact ATI for more information.

RTU SPECIFICATIONS

Physical Attributes		
	Standard Enclosure	**NEMA-4/3R Enclosure**
Length	23.625”	28”
Width	23.625”	22”
Depth	10”	15”
Weight (without radio/batteries)	50 - 66 lbs (depending on configuration)	50 - 66 lbs (depending on configuration)

Environmental Characteristics	
Operating Temperature	-40 to +55°C
Humidity	0 to 95%, non-condensing

Electrical/Power Characteristics		
Supply voltage	120VAC 60Hz	240VAC 50Hz
Supply current, max	3.5 A	2.0 A
Standby current	<550mA, typical **§**	
Standby time without AC	>3 days **§**	
Max activation time	60 minutes (steady tone, full power) **§**	
Radio power supply	12V DC, 12A maximum*	

Communication I/O	
Communication to ATI units	IP (Ethernet), (UHF/VHF) radio, fiber, satellite, DSL, and cellular modem*
RS485/RS232 port	1, maximum (either RS485 or RS232)*
Signaling opto inputs	8, maximum* (configurable)
Signaling relay outputs	8, maximum* (configurable)
Audio out (for PA or FACP)	configurable 300/600 ohm balanced or unbalanced*

Pre-recorded Messages/Tone Characteristics	
Number of alert tones	10 pre-configured alert tones
Num. of recorded messages	255, maximum
Recording time, maximum	100 hours (depends on recording content)

Configurations Available

Public Address Interface	Traffic Control Interface
Hardwired Push Button Interface	Strobe Interface
Wireless Push Button Interface	Message Sign Interface
Radio Transfer Interface	Weather Station
Gate Control Interface	Other Custom Interfaces Available*

All information and specifications are subject to change without notice, and may contain typographical or other errors.
§ *Assumes 2 - 33AH batteries using radio communication*
**Additional hardware/firmware may be required.*

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