

Remote Terminal Unit

The versatile Remote Terminal Unit can interface a wide variety of inputs and outputs to the ATI control system. Input from devices such as wired or wireless push buttons, sensors and fire panels can be configured to trigger system activations. The RTU outputs can control a variety of external units during an activation. Examples include traffic light control, strobe lights, gate control units, radio repeaters and message signs. The RTU can also put out an audio signal to provide alert messages or live voice to external PA systems or radios.

Standard Equipment

The RTU includes a NEMA-4/3R enclosure cabinet; an RTU Controller Board equipped with eight 10 Amp/250VAC relay outputs, eight optically isolated inputs, four configurable analog data inputs, a tone generator and local push buttons for testing; a conventional VHF or UHF radio and mounting hardware; a temperature-compensated battery charger; an intrusion switch; and power On/Off circuit breakers.

Optional Features

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

- Trunked radio upgrade
- Additional radio for radio re-broadcast
- Hardwired push button, public address or strobe monitoring board
- Wireless push button receiver
- Flexible, redundant communication options including IP Ethernet, twisted pair/phone line, cellular, satellite
- Local control panel upgrade with microphone, LCD display and controls
- Antenna surge protector option
- Solar power option
- Strobe light or LED sign output options
- NEMA-4/3R stainless steel enclosure upgrade

Key Features

- Simple and compact hardware design
- Field-proven reliability
- Remote activation, testing and reporting
- Local and remote silent testing
- Standard VHF and UHF radio receives and transmits FSK data signals
- 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



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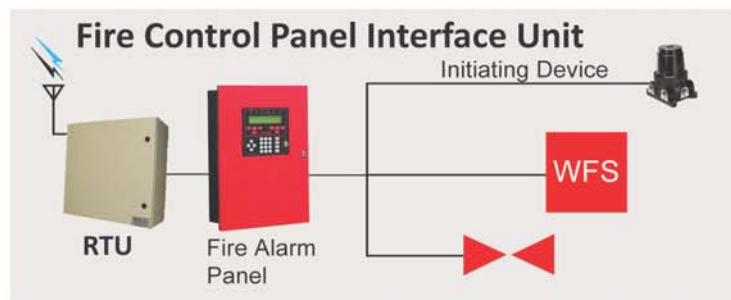
Multiple Configuration Available

The flexible and versatile RTU is configurable for many standard interfacing and control applications, including:

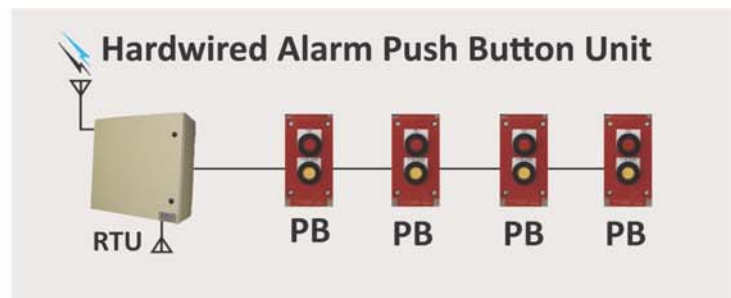
1. PA Interface Unit: A balanced 600 ohms /line level adjustable audio output provides an interface to existing public address and voice evacuation systems. The PA Interface Unit allows for remote activations of alert tones, pre-recorded and live voice messages, delivered over an existing audio system



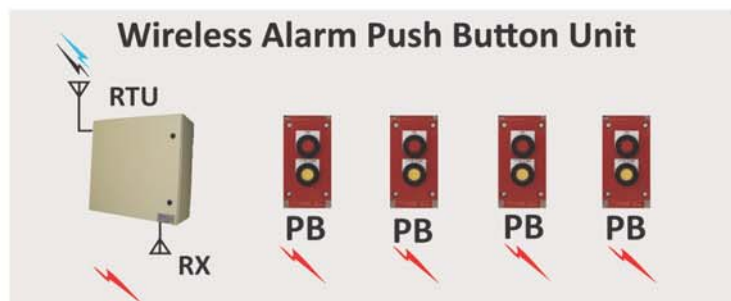
2. Fire Control Panel Interface Unit: The RTU can also interface to a fire control panel and transmit status information to the ATI system, which in turn can broadcast alert tones, pre-recorded and live voice messages through the fire control panel speakers.



3. Hardwired Alarm Push Button Unit: The Push Button Board supervises and monitors up to 10 directly connected remote push buttons (expandable in groups of 10). The system is configurable to play either a systemwide alert tone and message, or area-specific alert tones and messages when a push button is pressed at a remote location. The push buttons can be color-coded to indicate different activations.

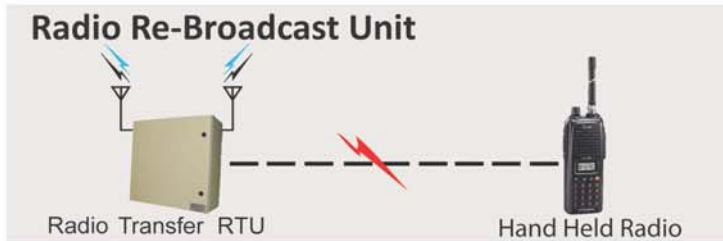


4. Wireless Alarm Push Button Unit: Similar to the hardwired option, the wireless push button receiver supervises and monitors up to 16 wireless push buttons using 900 MHz spread spectrum technology. The system is configurable and the push buttons can be color-coded as described above.

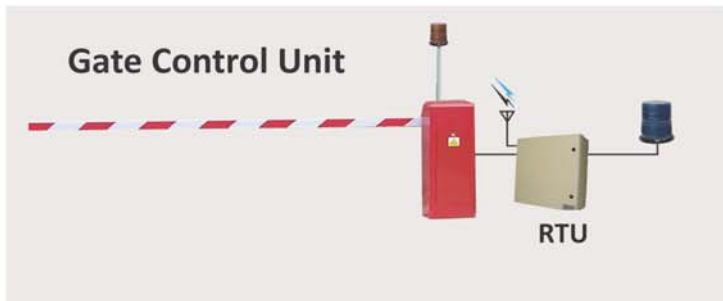


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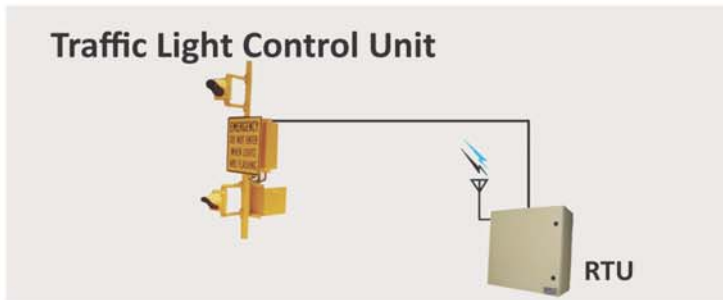
5. Radio Re-Broadcast Unit: The Radio Re-Broadcast Unit allows the re-broadcast of emergency alert tones and messages on a second radio frequency. It is mainly used to broadcast the notifications on hand-held radios.



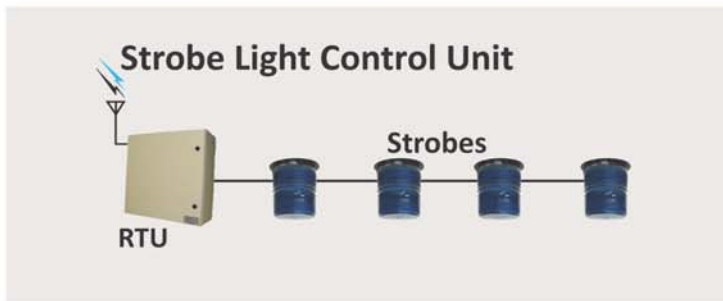
6. Gate Control Unit: The Gate Control Unit is programmed to supervise and control remote access gates. It is useful for both preventing and reporting unauthorized access to a secure area, as well as for opening and closing gates during emergencies.



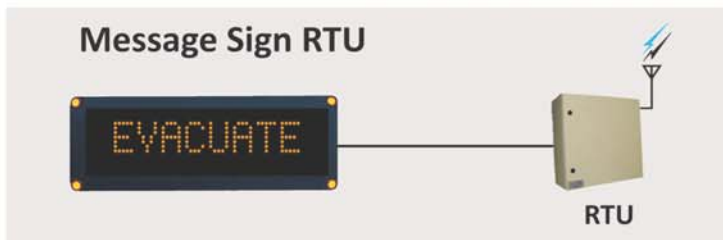
7. Traffic Light Control Unit: Programmed to control and operate a traffic light in response to specific emergencies, the RTU is best used to prevent traffic from entering a hazardous area.



8. Strobe Light Control Unit: This option allows the RTU to control and monitor strobe lights. Note: Requires two 12V batteries.



9. Message Sign Control Unit: The RTU can be configured to control and monitor indoor and outdoor alpha-numeric signs. The signs can be activated and changed remotely.



10. Weather Station Control Unit: The RTU can monitor weather station conditions by receiving digital and/or analog signals from the station and transmitting them to the control station.

Weather Station Control Unit



Specifications for Model # RTU

General	
Operation	Tested and proven in harsh environments
Humidity	0 to 95%, non-condensing
Standby without AC	20 Hours
Enclosure Weight	96 lbs (without batteries)
Enclosure Size	23.5"H x 23.5"W x 10"D
Electrical	
AC Input Voltage	120 VAC or 240 VAC 50/60 Hz
Communication	
Modem Modulation	FSK, DTMF, TTS
Radio Output Power	1 to 25 Watts
Controller	
Program Storage	256K Flash Memory/100 years of data retention
Addressing	Dip switches for easy address selection
Local Activation	Six pushbuttons for local testing
Radio Interface	Universal radio interface and power connectors
Expansion Ports	RS485, RS232
Other Ports	Interface port for up to two Digital Message Boards
Other Features	Built-in AGC circuit, tone generator and digital adjustable audio gain
Active Power without radio	< 200 milliamperes
Batteries	
Requires one 12VDC, 12 Amp-Hour battery	

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

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06/09

Ordering Information

Part Number	Description
	Remote Terminal Unit - RTU is configurable for many standard interfacing and remote control applications. It includes a NEMA4 cabinet, RTU Controller Board, ON/OFF circuit breaker, intrusion switch, temperature compensated battery charger, (8) 10 amp/250 VAC relay outputs, (8) optically isolated inputs, (4) configurable analog inputs, local push buttons for status monitoring and control, one RS-232 and one RS-485 port and a universal FSK/DTMF radio interface. Batteries and Antenna equipment sold separately. Refer to the RTU Types listed below.
ATI-HBP-RTU	1. Hardwired Push Button RTU Unit This unit includes a Hardwire monitor Pushbutton Board that supervises and monitors up to 10 directly connected remote Push Buttons. Antenna, battery and push buttons sold separately. Requires (1) Battery.
ATI-WPB-RTU	2. Wireless Push Button RTU Unit - This unit includes a Wireless Push Button Transceiver and two spread spectrum antennas. This transceiver can communicate and supervise up to 16 Wireless Pushbutton Stations. Antenna and battery sold separately. Requires (1) Battery.
ATI-FCP-RTU	3. FCP-RTU Unit - This unit interfaces to a Fire Control Panel (FBC) and transmits status information to the ATI Control Station. This status information may be used to activate alarm tones and messages or displayed status on the Monitor. Antenna and battery sold separately. Requires (1) Battery.
ATI-RT-RTU	4. Radio Transfer Unit - This unit controls a second radio to re-broadcast tones and messages on a different frequency. The unit includes an additional radio. Antenna, battery and Digitized Pre-Recorded Voice Message Board sold separately. Requires (1) Battery.

Ordering Information

Part Number	Description
ATI-TR-RTU	5. Traffic Light RTU Unit - Controls and monitor a Traffic Light in response to specific emergencies. Useful in preventing traffic from entering a specific area where the emergency condition exists. Antenna, battery and traffic light sold separately.
ATI-ST-RTU	6. Strobe Light RTU Unit - Controls and monitors strobe lights. Antenna, battery and strobes sold separately. Requires (2) Batteries.
ATI-GATE-RTU	7. Gate RTU Unit - Controls and monitors remote access gates. Useful in preventing and reporting unauthorized access to a secure area. Antenna and battery and sold separately. Requires (1) Battery.
ATI-PA-RTU	8. PA Interface RTU Unit - Controls and operates an existing In-Plant Paging System. The unit includes a switch balanced 600 ohm adjustable audio output. This Unit allows for remote activations of alarm tones, live PA (from the ATI System) and Pre-Recorded messages to be played through the existing interfaced PA system. Antenna, battery and Digitized Pre-Recorded Voice Message Board sold separately. Requires (1) Battery.
ATI-DMB	Digitized Pre-Recorded Voice Message Board This unit includes a Digital Message Board with a ribbon cable. It does not include messages or recording time.
ATI-DMR10	Digital Message - Up to 10 Messages, limited to 2 minutes.
ATI-DMR30	Digital Message - Up to 30 Messages, limited to 6 minutes.
ATI-DMR50	Digital Message - Up to 50 Messages, limited to 8 minutes.
ATI-DMR100	Digital Message - Up to 100 Messages, limited to 16 minutes.

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