Alarm Remote Terminal Unit

Model # RTU

This flexible and versatile unit is configurable for many standard interfacing and control applications (custom control and monitoring applications are available, consult factory with you specific requirements). It can easily be field upgraded to provide any of the standard listed options.

7 Configurations Available**

Standard Equipment

Includes a NEMA4 cabinet, a RTU Controller Board, ON/OFF circuit breaker, intrusion switch and a temperature compensated battery charger. The RTU Controller Board is equipped with (8) 10amp/250VAC relay outputs, (8) optically isolated inputs, (4) configurable analog data inputs, tone generator, local push buttons for testing, Light Emitting Diodes (LEDs) for local status monitoring, automatic gain control for consist live PA output volume, one RS-232 serial port, one RS-485 port and a universal FSK/DTMF radio interface.

- Antenna equipment sold separately since the radio output power and antenna type are tailored for individual site requirements.
- Batteries not included. Requires two 12 VDC, 30 AH batteries. Recommended Battery Manufacturer and Part Number: Power Sonic PS12180-NB

Standard Features

- Local and remote control and status monitoring
- All Printed Circuit Boards (PC boards) are conformal coated to prevent damage and insure proper operation in harsh environments
- A radio is used to receive and transmit FSK data signals (Other connection medias are available, consult factory for details).
- All communication transmissions include a security method to prevent unauthorized system activations
- Temperature compensated battery charger insures that the batteries are always charged to full capacity

Acoustic Technology, Inc. 30 Jeffries Street East Boston, MA 02128 tel (617) 567-4969 fax (617) 569-2964
www.atisystem.com EMAIL: sales@atisystem.com

**Configuration Options

1. Hardwired Alarm Push Button Unit (RTU-PBU-H)

Includes a Hardwire Monitor Pushbutton Board that supervises and monitors up to 16 directly connected remote Push Buttons. The ATI system is configurable to play either a total alarm tone and message or area specific alarm tone and message when a Push Button is pressed at a remote location. Pushbutton stations are sold separately. Refer to the attached Hardwire Push Button Station Chart to order.

Three Button Hardwire Push Button Station

Hardwired Push Button Stations (includes a Weather resistant Box that holds momentary Button(s). Each Button includes a end-of-the-line resistor for supervision.):

Model #	Description
HPB1**	One Button Station - Contains 1 momentary Button
HPB2**	Two Button Station - Contains 2 momentary Buttons
HPB3**	Three Buttton Station - Contains 3 momentary Buttons

** Specify Push Button Color. W = White, R = Red, Y = Yellow

** Specify Push Button Name. Limited to 8 letters per button.

2. Wireless Alarm Push Button Unit (RTU-PBU-W)

Includes a Wireless Push Button Receiver. This receiver can communicate and supervise up to 16 Wireless Push Button Stations. The ATI system is configurable to play either a total alarm tone and message or area specific alarm tone and message when a Push Button is pressed at a remote location. The Wireless Push Button Stations are sold separately; refer to the attached Wireless Push Button Station Chart to order.

One Button Explosive Proof Station

Wireless Push Button Stations (Wireless Push Buttons sold separately.):

Model #	Description
WPB1	One Button Station - Weather resistant Box that holds 1 momentary Button.
WPB2	Two Button Station - Weather resistant box that holds 2 momentary Buttons

For Electrically Classified Areas:

WPB1 EXP	One Button Station Same as WPB1 with Explosive Proof Battery Enclosure
WPB2 EXP	Two Button Station Same as WPB2 with Explosive Proof Battery Enclosure

**Configuration Options

3. Fire Panel Interface Unit (RTU-FCP)
The option allows interfaces to a Fire Central Panel (FCP) and transmits status information to the ATI Central Control Station. This status information may be used to activate alarm tones and messages.

4. Radio Re-Broadcast Unit (RTU-BROD)
The Radio Re-Broadcast option will re-broadcast emergency alarm messages on a second Radio Frequency.

5. Traffic Light Control Unit (RTU-TR)
Programmed to control and operate a Traffic Light in response to specific emergencies. Useful in preventing traffic from entering a specific area where the emergency condition exists.

6. Gate Control Unit (RTU-GATE)
Programmed to control and supervise remote access gates. Useful in preventing and reporting unauthorized access to a secure area.

7. PA Interface Unit (RTU-PA)
A switch balanced 600 ohms adjustable audio output provides an interface to an existing In-Plant Paging System. A common application is to interface to a Gaitronics "GTC" Page Party Phone System. This unit allows for remote activations of alarm tones, live PA and pre-recorded messages through the interfaced PA system.

Options

1. Strobe Output Option (-STR)
Controls a string of Strobe Lights of up to 10 amps of total current draw. Refer to the Strobe Selection Chart to order the Strobes separately.

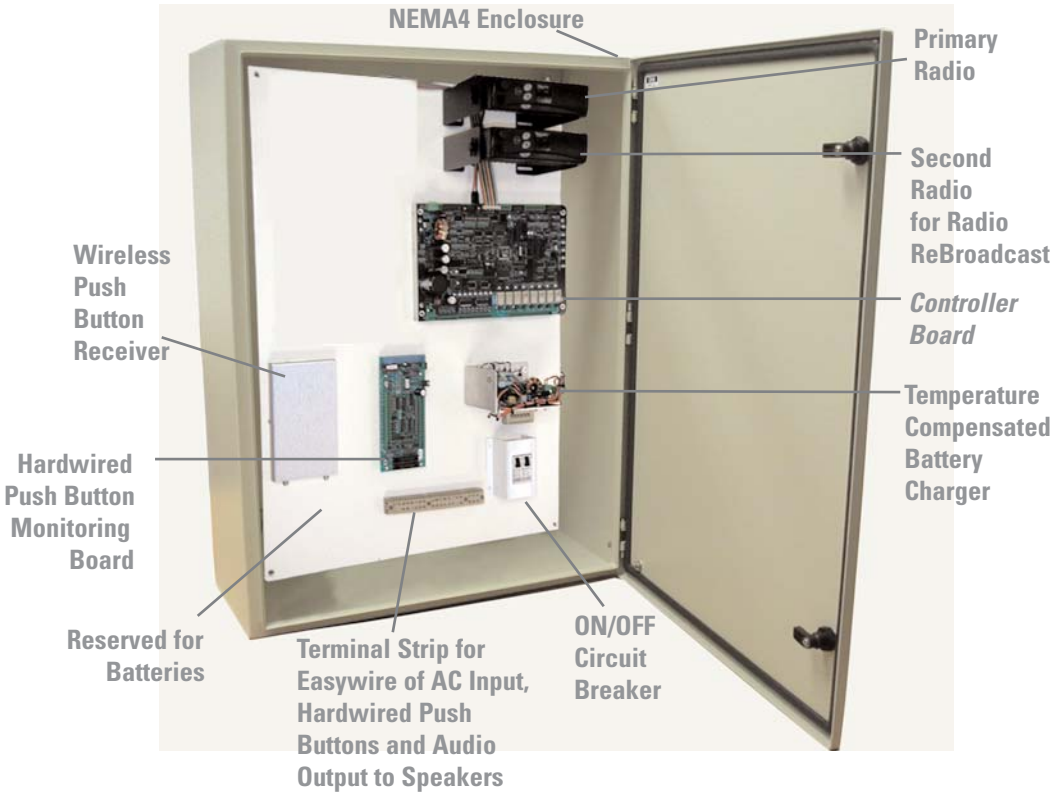
2. Solar Power Option (-SP)
Includes solar panels, regulator, 30 feet of power cable and solar panel mounting bracket(s). Batteries must be upgraded to 75 AH. Available in 55W, 75W or 100W Solar Panels. Useful when it is impossible or uneconomical to obtain AC power to run the remotely located unit.

3. Antenna Surge Protection Option (-ASP)
Used in high lightning areas to protect the Radio's antenna input. Rated for 50,000 amps IEC.

Upgrades

1. Trunked Radio System Upgrade (-T)
Replaces the standard conventional radio with an 800 or 900 MHz trunk radio that interfaces with an existing Trunking System.

2. NEMA 4X Enclosure Upgrade (-4X)
Replaces the standard enclosure with a NEMA4X Stainless Steel enclosure.



Specifications

General	
Operating Temperature	-30° C to +85° C
Humidity	0% to 95% Non - Condensing
Standby Operation w/out AC	72 hours
Alarm Operation w/out AC	30 minute duration
Weight	96 lbs
Cabinet	H 30 in. x W 24 in. x D 12 in.

Electrical	
AC Input Voltage	120VAC / 240VAC 50-60 Hz
Operating Current	1.5 At 120VAC and 0.8 At 240VAC

Communications	
Communications	FSK (Preferred) or DTMF
Radio Output Power	1 - 25 Watt

Controller Section	
Program Storage	256K Flash memory/100yrs data retention
Addressing	Dip switches for easy address selection
Local Activation	Six pushbuttons for local testing and activation
Radio Interface	Universal radio interface and power connectors
Expansion ports	RS485, RS232 and a second 1600 watt Amplifier
Other Ports	Interface Port for up to two Digital message Boards
Other Features	Build in AGC circuit, tone generator, and adjustable audio gain
Active Power without Radio	<100 milliamperes
Standby Power	<4 milliamperes