

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 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.



KEY FEATURES

- Supports 60 minutes of continuous activation* Cutting edge computing power and enhanced security
- 32-bit ARM CPU
- SSL/TLS security standards: including AES, RSA, 3DES, ARC4, SHA1, SHA2, MD2, MD4 and MD5
- Text to speech capabilities
- 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
- 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.

| PHYSICAL ATTRIBUTES | Standard Enclosure | NEMA-4/3R Enclosure |
|--|--|--|
| Length: | 23.625" | 19" |
| Width: | 23.625" | 21" |
| Depth: | 10" | 15" |
| Weight (without radio/batteries): | 50 - 66 lbs (depending on config) | 50 - 66 lbs (depending on config) |
| ENVIRONMENTAL CHARACTERISTICS | | |
| Temperature: | -40 to +60°C | |
| Humidity: | 0 to 95% non-condensing | |
| ELECTRICAL CHARACTERISTICS | | |
| Supply Voltage: | 120VAC 60Hz | 240VAC 50Hz |
| Supply Current max: | 3.5 A | 2A |
| 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 ATl 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: | 255max | |
| Recording Time Max: | 100 hours (depends on recording content) | |
| ALTERNATE CONFIGURATIONS | | |
| 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 | Siren Monitoring Unit | |
| Other Custom Interfaces Available* | | |

* Additional hardware/firmware may be required.

§ Assuming 2 - 33AH batteries with radio communication