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 speach 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 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.

ATI Systems
ACOUSTIC TECHNOLOGY, INC.

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 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 unbalaced*	
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