

**EQUIPMENT SPECIFICATION**

**GAI-TRONICS**

**RED ALERT® HANDSFREE EMERGENCY AND ASSISTANCE ANALOG TELEPHONE PRODUCTS**

**EQUIPMENT SPECIFICATION**

**GAI-TRONICS RED ALERT® EMERGENCY AND ASSISTANCE**

**ANALOG TELEPHONES**

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**EQUIPMENT SPECIFICATION**

**GAI-TRONICS RED ALERT® EMERGENCY AND ASSISTANCE**

**ANALOG TELEPHONES**

**1.0.0 Scope and Intent**

This specification identifies and details GAI-TRONICS’ emergency and assistance telephones, accessories, and peripherals necessary to provide two-way, emergency and/or non-emergency communications via connection to any conventional, analog telephone network.

The specified emergency and assistance telephone products shall be line-powered and shall operate with a minimum line current of 24 mA. The emergency telephones shall be designed for handsfree (after initial activation), two-way operation and shall be capable of being monitored for health status and call activity. Monitoring, if utilized, shall be accomplished via a polling or call-in protocol using a centrally located, dedicated personal computer software application. Each emergency and assistance telephone shall be capable of controlling a minimum of two peripheral devices via programmable activation methods.

Unless specified otherwise, Emergency telephone products specified herein shall comply with the Americans with Disabilities Act (ADA) in both physical and operational characteristics.

All supporting documentation mentioned in this specification (literature and manuals) shall be capable of being located on the GAI-TRONICS Website: [www.gai-tronics.com](http://www.gai-tronics.com)

**2.0.0 Seller Warranties**

* 1. the Seller warrants the satisfactory and successful operation of all equipment furnished under this specification at the ratings, under the conditions, and for the type of service specified herein.
	2. Goods manufactured by the seller are warranted to be free from defects in material and workmanship until one year after the date of shipment. Equipment supplied by but not manufactured by the seller shall be subject to the original equipment manufacturer’s standard warranty.

**3.0.0 Workmanship**

All work shall be performed in accordance with the best modern practice in design, manufacture, and fabrication of all material and apparatus by this specification, notwithstanding any omission from the specifications or drawings.

**4.0.0 Material and Construction**

All materials used in the construction of the specified emergency telephone products shall be new and selected as the best available for the intended purpose, considering long life and best engineering practices. Factors of safety shall be used throughout the design. Only heavy-duty industrial components rated to operate within the temperature ranges and other environmental conditions specified in Paragraph 7 shall be used.

**5.0.0 Installation: Equipment and wiring to be installed by the Purchaser**

The specified Emergency and Assistance telephone products shall be line powered and designed for connection to the following networks via standard telephone or Cat5/6 wire pairs:

* Central Office (C.O.) line to the Public Switched Telephone Network (PSTN)
* 24 V dc or 48 V dc analog station port of a Private Branch Exchange (PBX), Private Automatic

Branch Exchange (PABX), or Key Service Unit (KSU).

Connection to pay telephone extensions or shared service (party) lines shall not be permitted.

If required, seller shall provide technical guidance during installation and/or testing, via telephone, at no additional charge. After installation is completed, the Seller shall be prepared to perform a checkout of the system. If required by the buyer, a seller-provided factory technician shall visit the job site to assist with system layout and design (pre-sale) or to make necessary adjustments and instruct the operating and maintenance personnel on the proper use and care of the system (post-sale). Charges for these on-site services shall be on a per diem basis (including travel time), plus all expenses on a cost-plus basis.

**6.0.0 Operation and Maintenance Instructions**

All equipment requiring continued interaction, service, or support shall be provided with complete operation (user) and maintenance (service) manuals. All available documentation shall be packaged with the equipment, included with associated application software, and/or readily accessible via the seller’s/manufacturer’s website.

* 1. **Environmental Conditions**

Equipment shall be suitable for use in designated environmental conditions per the appropriately listed performance specification.

* 1. **Equipment Operation**

The Emergency and Assistance telephones shall be offered in the following operational configurations:

* Single Emergency push button autodial operation (single emergency autodial only)
* Single Assistance push button autodial operation (single assistance autodial only)
* Emergency push button autodial and call (dial tone) push button with keypad (emergency autodial and general telephone calls)
* Emergency and Assistance autodial push buttons (emergency autodial and non-emergency autodial)
* Call push button with keypad (hands-free standard telephone operation, non-emergency)

Telephones equipped with a HELP push button shall be capable of being programmed to autodial up to three different telephone emergency telephone numbers. These shall include a primary telephone number and two “rollover” telephone numbers. The HELP push button shall also be capable of being programmed for ring-down operation (PBX functionality after line access) or for single number autodial with no rollover.

Telephones equipped with an ASSISTANCE push button shall be capable of being programmed to autodial up to three different non-emergency telephone numbers. These shall include a primary telephone number and two “rollover” telephone numbers. The ASSISTANCE push button shall also be capable of being programmed for ring-down operation (PBX functionality after line access) or for single number autodial with no rollover.

If an emergency or assistance call cannot connect to the primary telephone number (i.e., a busy signal or no answer), the emergency telephone shall automatically dial the first rollover number. If the first rollover number is busy or no answer, the telephone shall automatically dial the second rollover telephone number. The number of call attempts shall be programmable. If rollover numbers are not required by system operation, simply not programming the two rollover numbers shall cause the emergency telephone to continuously ring the primary telephone number until redirected by the telephone system head-end (C.O. or PBX) or the call is abandoned. Telephones equipped with a CALL push button shall be capable of accessing the network dial tone and calling a number dialed via an integral keypad.

Each Emergency and Assistance telephone shall minimally be capable of being configured locally (at each telephone), remotely via a separate telephone, or remotely via centrally located software. Programmable configuration options shall minimally include:

* Pre-programmed auto-dial telephone numbers
* Call termination method (automatic or manual)
* Call attempts
* Maximum call duration
* Answering options

The Emergency and Assistance telephones shall be capable of receiving incoming calls by manually pressing a button or by automatically answering the call. When answering automatically, the Emergency telephone shall be capable of generating a splash/notification tone or signal identifying the telephone as being in audio monitor mode of operation.

Disconnecting a call shall be capable of being performed via:

* Remote disconnect of an emergency call
* Manual disconnect of an emergency call
* Remote disconnect of a non-emergency call
* Manual disconnect of a non-emergency call
* Automatic disconnect

Each Emergency and Assistance telephone shall be capable of transmitting an identification code for the purpose of identifying the calling source location. This transmitted code shall be in DTMF format and shall be transmitted only upon receiving a DTMF prompt from the called party. This location code shall be displayed on a customer provided DTMF decoder or head end equipment display (attendant console).

All specified Emergency and Assistance telephone models shall be provided with tamper-resistant security screws to prevent undesired access to the equipment electronics.

All specified Emergency and Assistance Autodial Telephones shall be offered with a Voice Annunciation option that allows local or remote recording of a voice message. This option shall provide the called party the ability to activate the pre-recorded message via a simple DTMF command at any time during the conversation. Battery power shall be considered acceptable for this option. If battery operation is required, each Emergency Telephone shall be provided with an appropriate battery that has a minimum 3-yr. shelf life. Since all basic telephone functions are required to be line powered and independent of the batteries, a failed or low battery shall impact only the telephone’s ability to record and playback the voice announcement.

All specified Emergency and Assistance Telephones shall additionally be offered with a cold weather option that replaces the tactile (moveable) emergency pushbutton switch with a non-tactile (non-moveable) pushbutton switch. The use of the non-tactile pushbutton switch shall be designed to eliminate any moving call activation parts that may freeze during extreme cold temperatures. This option shall also provide a plug-in power supply to be used for heater circuit activation to allow operation to -40° C (-40° F). This option shall require availability of 120 V ac power.

All specified Emergency and Assistance Telephones shall be capable of providing two (2) separate, isolated, solid-state switch outputs, each rated at 125 mA @ 48 V dc. Each output shall be programmable for field-selected uses, one of which shall be capable of direct connection to an L.E.D. strobe to provide solid-state activation control when the telephone is in use. These controls shall typically be removed when the call is disconnected but shall be capable for being programmed for a timed duration after the call has disconnected.

Each Emergency and Assistance telephone shall include a front panel L.E.D. that flashes when the call is in progress and automatically glows steady when the call is connected. This L.E.D. shall extinguish when the call disconnects. This operation shall be required for ADA compliance.

All specified Emergency and Assistance telephones shall be capable of being monitored from a central PC that hosts dedicated software designed for monitoring operation. Data shall be reported or made available via polling or call-in protocol. Said software shall be designed and provided by the emergency and assistance telephone manufacturer. Reported faults shall include:

* Line Integrity
* Microprocessor Health
* Stuck Buttons
* Microphone/Speaker Circuit Fault
* Line Interrupt (power failure)
* Low Battery (Voice Annunciation option only)

**9.0.0 Field Wiring**

All local audio and power wiring shall conform to the specific equipment’s installation instructions and local and national codes.

**10.0.0 Equipment**

10.1.0 Single-button Autodial Emergency Telephone, Surface-Mount, Non-metallic Enclosure

* + 1. Description

The Single-button Autodial Emergency Telephone described in this section shall be designed for surface mounting on any flat surface or for mounting to a pole, with the appropriate mounting hardware, and shall be designed for indoor or outdoor use. It shall comply with Sections 1.0.0 (Scope and Intent), 5.0.0 (Installation), and 8.0.0 (Equipment Operation) of this specification. The Emergency Telephone shall be designed for single push button activation with handsfree communications following initial telephone line connection.

The Single-button Autodial Emergency Telephone shall be designed to hide the mounting hardware from external access when the cover is installed. The cover shall attach to the enclosure with security screws to prevent unplanned access to the telephone’s electronics.

* + 1. Interconnection

Interconnecting wiring shall be limited to 600 Ohm telephone audio pairs, output control pairs (2), and power supply wiring for applicable options. All external cabling shall be entered through the enclosure per the manufacturer’s installation instructions. All wiring shall be terminated inside the telephone via screw terminals.

* + 1. Performance Specification

This Single-button Autodial Emergency Telephone shall meet the following performance and physical specifications:

**Electrical/Audio**

Audio output 1 kHz tone @ 87 ± 3 dB SPL @ 1 meter with 40 mA loop current

Battery Voltage (tip and ring) 24 V dc or 48 V dc

Phone line requirements Loop start, central office (CO), or

 Analog station port (PBX, PABX, or KSU)

Minimum loop current 24 mA (35 mA recommended)

(2) Auxiliary outputs (Isolated solid-state switch) 48 V dc @ 125 mA

 28 VRMS ac @ 80 mARMS

Signaling DTMF 100 ms tone

Memory Non-volatile EEPROM

**Mechanical**

Operating temperature range

-003 and -004 Models −40º F to +140º F (−40º C to +60º C)

-001 and -002 Models −4º F to +140º F (−20º C to +60º C)

Relative humidity to 95%, no condensation

**Construction:**

Enclosure construction Plastic (high impact, glass-reinforced polyester), safety yellow

Dimensions 9.5 H × 8.0 W × 4.0 D inches (241.3 × 203.2 × 101.6 mm)

Weight 4.0 lbs. (1.8 kg)

**Approval Standards**

Safety of Information Technology Equipment UL/CSA 60950

Enclosures for Electrical Equipment UL 50, Type 3R

47 CFR Part 68

Certification Number US: ADGTE05BGTC2010

Ringer Equivalence Number .5B

Network connection (USOC) RJ11

IC Information (Canada)

IC Certification Number 882B-GTC 2010

Ringer Equivalence Number .5B

Connection Method CA11A

* + 1. Peripheral Equipment and Accessories

The following peripheral equipment, options, and accessories shall be offered in support of the Single-button Autodial Emergency Telephone:

**Voice Annunciation Option,** as specified in section 8.0.0.

**Cold Weather Option,** as specified in section 8.0.0.

**Pole Mounting Kit** shall be designed to allow mounting of the emergency and assistance telephones to a pole with a maximum diameter of 4-inches.

**L.E.D. Strobe, 120 V ac,** as referenced in section 11.1.0

**L.E.D Strobe, 12-24 V dc**, as referenced in section 11.1.0

**Strobe Mounting Assembly** shall be offered for pole or wall mounting the L.E.D. Strobe.

**Security Screwdriver** shall be offered to permit installation, access, and removal of the Surface-mount Handsfree VoIP Emergency Telephones.

**Telephone Management Application Software** as referenced in section 11.6.0

* + 1. Equipment Manufacturer and Model Numbers

The Single-button Autodial Emergency Telephone shall be GAI-Tronics RED ALERT® Model No. **393-001**. Options, peripherals, and accessories shall be GAI-Tronics models numbers, specified as:

* **393-002** RED ALERT® Single-button, Surface-mount, Non-metallic Emergency Telephone with Voice Annunciation option
* **393-003** RED ALERT® Single-button, Surface-mount, Non-metallic Emergency Telephone with Extreme Cold Temperature option
* **393-004** RED ALERT® Single-button, Surface-mount, Non-metallic Emergency Telephone with Voice Annunciation option and Extreme Cold Temperature options
* **231-002** Pole Mounting Kit
* **540-001** 120 V ac, L.E.D. Strobe Assembly with constant-on feature
* **541-001** 12-24 V dc,Low Voltage Strobe with programmable constant-on feature
* **4115A** Strobe Assembly Mounting Kit
* **233-001** Security Screwdriver
* **12509-042** Telephone Management Application (TMA) software
	1. Single-button Autodial Assistance Telephone, Surface-Mount, Non-Metallic Enclosure

10.2.1 Description

The Single-button Autodial Assistance Telephone described in this section shall be designed for surface mounting on any flat surface or for mounting to a pole, with the appropriate mounting hardware, and shall be designed for indoor or outdoor use. It shall comply with Sections 1.0.0 (Scope and Intent), 5.0.0 (Installation), and 8.0.0 (Equipment Operation) of this specification. The Assistance Telephone shall be designed for single push button activation with handsfree communications following initial telephone line connection.

The Single-button Autodial Assistance Telephone shall be designed to hide the mounting hardware from external access when the cover is installed. The cover shall attach to the enclosure with security screws to prevent unplanned access to the telephone’s electronics.

* + 1. Interconnection

Interconnecting wiring shall be limited to 600 Ohm telephone audio pairs, output control pairs (2), and power supply wiring for applicable options. All external cabling shall be entered through the enclosure per the manufacturer’s installation instructions. All wiring shall be terminated inside the telephone via screw terminals.

* + 1. Performance Specification

This Single-button Autodial Assistance Telephone shall meet the following performance and physical specifications:

**Electrical/Audio**

Audio output 1 kHz tone @ 87 ± 3 dB SPL @ 1 meter with 40 mA loop current

Battery Voltage (tip and ring) 24 V dc or 48 V dc

Phone line requirements Loop start, central office (CO), or

 Analog station port (PBX, PABX, or KSU)

Minimum loop current 24 mA (35 mA recommended)

(2) Auxiliary outputs (Isolated solid-state switch) 48 V dc @ 125 mA

 28 VRMS ac @ 80 mARMS

Signaling DTMF 100 ms tone

Memory Non-volatile EEPROM

**Mechanical**

Operating temperature range

-003 and -004 Models −40º F to +140º F (−40º C to +60º C)

-001 and -002 Models −4º F to +140º F (−20º C to +60º C)

Relative humidity to 95%, no condensation

**Construction:**

Enclosure construction Plastic (high impact, glass-reinforced polyester), safety yellow

Dimensions 9.5 H × 8.0 W × 4.0 D inches (241.3 × 203.2 × 101.6 mm)

Weight 4.0 lbs. (1.8 kg)

**Approval Standards**

Safety of Information Technology Equipment UL/CSA 60950

Enclosures for Electrical Equipment UL 50, Type 3R

47 CFR Part 68

Certification Number US: ADGTE05BGTC2010

Ringer Equivalence Number .5B

Network connection (USOC) RJ11

IC Information (Canada)

IC Certification Number 882B-GTC 2010

Ringer Equivalence Number .5B

Connection Method CA11A

* + 1. Peripheral Equipment and Accessories

The following peripheral equipment, options, and accessories shall be offered in support of the Single-button Autodial Assistance Telephone:

**Cold Weather Option,** as specified in section 8.0.0.

**Telephone Pole Mounting Kit** shall be designed to allow mounting of the emergency and assistance telephones to a pole with a maximum diameter of 4-inches.

**L.E.D. Strobe, 120 V ac,** as referenced in section 11.1.0

**L.E.D Strobe, 12-24 V dc**, as referenced in section 11.1.0

**Strobe Mounting Assembly** shall be offered for pole or wall mounting the L.E.D. Strobe.

**Security Screwdriver** shall be offered to permit installation, access, and removal of the Surface-mount Handsfree VoIP Emergency Telephones.

**Telephone Management Application Software** as referenced in section 11.6.0

* + 1. Equipment Manufacturer and Model Numbers

The Single-button Autodial Assistance Telephone shall be GAI-Tronics RED ALERT® Model No. **393-001AD**. Options, peripherals, and accessories shall be GAI-Tronics models numbers, specified as:

* **393-003AD** RED ALERT® Single-button, Surface-mount, Non-metallic Assistance Telephone with Extreme Cold Temperature option
* **231-002** Pole Mounting Kit
* **540-001** 120 V ac, L.E.D. Strobe Assembly with constant-on feature
* **541-001** 12-24 V dc,Low Voltage Strobe with programmable constant-on feature
* **4115A** Strobe Assembly Mounting Kit
* **233-001** Security Screwdriver
* **12509-042** Telephone Management Application (TMA) software
	1. Single-button Autodial Emergency Telephone, Surface-Mount, Aluminum Enclosure

10.3.1 Description

The Single-button Autodial Emergency Telephone described in this section shall be designed for surface mounting on any flat surface or for mounting to a pole, with the appropriate mounting hardware, and shall be designed for indoor or outdoor use. It shall comply with Sections 1.0.0 (Scope and Intent), 5.0.0 (Installation),) and 8.0.0 (Equipment Operation) of this specification. The Emergency Telephone shall be designed for single push button activation with handsfree communications following initial telephone line connection.

The Single-button Autodial Emergency Telephone enclosure shall be designed to hide the mounting hardware from external access when the cover is installed. The cover shall attach to the enclosure with security screws to prevent unplanned access to the telephone’s electronics.

10.3.2 Interconnection

Interconnecting wiring shall be limited to 600 Ohm telephone audio pairs, output control pairs (2), and power supply wiring for applicable options. All external cabling shall be entered through the enclosure per the manufacturer’s installation instructions. All wiring shall be terminated inside the telephone via screw terminals.

10.3.3 Performance Specification

This Single-button Autodial Emergency Telephone shall meet the following performance and physical specifications:

**Electrical/Audio**

Audio output 1 kHz tone @ 87 ± 3 dB SPL @ 1 meter with 40 mA loop current

Battery Voltage (tip and ring) 24 V dc or 48 V dc

Phone line requirements Loop start, central office (CO), or

 Analog station port (PBX, PABX, or KSU)

Minimum loop current 24 mA (35 mA recommended)

(2) Auxiliary outputs (Isolated solid-state switch) 48 V dc @ 125 mA

 28 VRMS ac @ 80 mARMS

Signaling DTMF 100 ms tone

Memory Non-volatile EEPROM

**Mechanical**

Operating temperature range

-003 and -004 Models −40º F to +140º F (−40º C to +60º C)

-001 and -002 Models −4º F to +140º F (−20º C to +60º C)

Relative humidity to 95%, no condensation

**Construction:**

Enclosure……………............................................................Cast aluminum, epoxy finish, painted safety yellow

Dimensions 9.5 H × 8.0 W × 4.0 D inches (241.3 × 203.2 × 101.6 mm)

Weight 7.8 lbs. (3.5 kg)

**Approval Standards**

Safety of Information Technology Equipment UL/CSA 60950

Enclosures for Electrical Equipment UL 50, Type 3R

47 CFR Part 68

Certification Number US: ADGTE05BGTC2010

Ringer Equivalence Number .5B

Network connection (USOC) RJ11

IC Information (Canada)

IC Certification Number 882B-GTC 2010

Ringer Equivalence Number .5B

Connection Method CA11A

10.3.4 Peripheral Equipment and Accessories

The following peripheral equipment, options, and accessories shall be offered in support of the Single-button Autodial Emergency Telephone:

**Voice Annunciation Option,** as specified in section 8.0.0.

**Cold Weather Option,** as specified in section 8.0.0.

**Telephone Pole Mounting Kit** shall be designed to allow mounting of the emergency and assistance telephones to a pole with a maximum diameter of 4-inches.

**L.E.D. Strobe, 120 V ac,** as referenced in section 11.1.0

**L.E.D Strobe, 12-24 V dc**, as referenced in section 11.1.0

**Strobe Mounting Assembly** shall be offered for pole or wall mounting the L.E.D. Strobe.

**Security Screwdriver** shall be offered to permit installation, access, and removal of the Surface-mount Handsfree VoIP Emergency Telephones.

**Telephone Management Application Software** as referenced in section 11.6.0

10.3.5 Equipment Manufacturer and Model Numbers

The Single-button Autodial Emergency Telephone shall be GAI-Tronics RED ALERT® Model No. **393AL-001**. Options, peripherals, and accessories shall be GAI-Tronics models numbers, specified as:

* **393AL-002** RED ALERT® Single-button, Surface-mount, Aluminum Emergency Telephone with Voice Annunciation option
* **393AL-003** RED ALERT® Single-button, Surface-mount, Aluminum Emergency Telephone with Extreme Cold Temperature option
* **393AL-004** RED ALERT® Single-button, Surface-mount, Aluminum Emergency Telephone with Voice Annunciation option and Extreme Cold Temperature options
* **231-002** Pole Mounting Kit
* **540-001** 120 V ac, L.E.D. Strobe Assembly with constant-on feature
* **541-001** 12-24 V dc,Low Voltage Strobe with programmable constant-on feature
* **4115A** Strobe Assembly Mounting Kit
* **233-001** Security Screwdriver
* **12509-042** Telephone Management Application (TMA) software
	1. Single-button Autodial Assistance Telephone, Surface-Mount, Aluminum Enclosure

10.4.1 Description

The Single-button Autodial Assistance Telephone described in this section shall be designed for surface mounting on any flat surface or for mounting to a pole, with the appropriate mounting hardware, and shall be designed for indoor or outdoor use. It shall comply with Sections 1.0.0 (Scope and Intent), 5.0.0 (Installation), and 8.0.0 (Equipment Operation) of this specification. The Assistance Telephone shall be designed for single push button activation with handsfree communications following initial telephone line connection.

The Single-button Autodial Assistance Telephone shall be designed to hide the mounting hardware from external access when the cover is installed. The cover shall attach to the enclosure with security screws to prevent unplanned access to the telephone’s electronics.

* + 1. Interconnection

Interconnecting wiring shall be limited to 600 Ohm telephone audio pairs, output control pairs (2), and power supply wiring for applicable options. All external cabling shall be entered through the enclosure per the manufacturer’s installation instructions. All wiring shall be terminated inside the telephone via screw terminals.

10.4.3 Performance Specification

This Single-button Autodial Assistance Telephone shall meet the following performance and physical specifications:

**Electrical/Audio**

Audio output 1 kHz tone @ 87 ± 3 dB SPL @ 1 meter with 40 mA loop current

Battery Voltage (tip and ring) 24 V dc or 48 V dc

Phone line requirements Loop start, central office (CO), or

 Analog station port (PBX, PABX, or KSU)

Minimum loop current 24 mA (35 mA recommended)

(2) Auxiliary outputs (Isolated solid-state switch) 48 V dc @ 125 mA

 28 VRMS ac @ 80 mARMS

Signaling DTMF 100 ms tone

Memory Non-volatile EEPROM

**Mechanical**

Operating temperature range

-003 Model −40º F to +140º F (−40º C to +60º C)

-001 Model −4º F to +140º F (−20º C to +60º C)

Relative humidity to 95%, no condensation

**Construction:**

Enclosure……………..............................................Cast aluminum, epoxy finish, painted safety yellow

Dimensions 9.5 H × 8.0 W × 4.0 D inches (241.3 × 203.2 × 101.6 mm)

Weight 7.8 lbs. (3.5 kg)

**Approval Standards**

Safety of Information Technology Equipment UL/CSA 60950

Enclosures for Electrical Equipment UL 50, Type 3R

47 CFR Part 68

Certification Number US: ADGTE05BGTC2010

Ringer Equivalence Number .5B

Network connection (USOC) RJ11

IC Information (Canada)

IC Certification Number 882B-GTC 2010

Ringer Equivalence Number .5B

Connection Method CA11A

10.4.4 Peripheral Equipment and Accessories

The following peripheral equipment, options, and accessories shall be offered in support of the Single-button Autodial Assistance Telephone:

**Cold Weather Option**, as specified in section 8.0.0.

**Telephone Pole Mounting Kit** shall be designed to allow mounting of the emergency and assistance telephones to a pole with a maximum diameter of 4-inches.

**L.E.D. Strobe, 120 V ac,** as referenced in section 11.1.0

**L.E.D Strobe, 12-24 V dc**, as referenced in section 11.1.0

**Strobe Mounting Assembly** shall be offered for pole or wall mounting the L.E.D. Strobe.

**Security Screwdriver** shall be offered to permit installation, access, and removal of the Surface-mount Handsfree VoIP Emergency Telephones.

**Telephone Management Application Software** as referenced in section 11.6.0

10.4.5 Equipment Manufacturer and Model Numbers

The Single-button Autodial Assistance Telephone shall be GAI-Tronics RED ALERT® Model No. **393AL-001AD**. Options, peripherals, and accessories shall be GAI-Tronics models numbers, specified as:

* **393AL-003AD** RED ALERT® Single-button, Surface-mount, Non-metallic Assistance Telephone with Extreme Cold Temperature option
* **231-002** Pole Mounting Kit
* **540-001** 120 V ac, L.E.D. Strobe Assembly with constant-on feature
* **541-001** 12-24 V dc,Low Voltage Strobe with programmable constant-on feature
* **4115A** Strobe Assembly Mounting Kit
* **233-001** Security Screwdriver
* **12509-042** Telephone Management Application (TMA) software
	1. Single-button Autodial with Call push button and keypad, Emergency Telephone, Surface-Mount, Aluminum Enclosure

10.5.1 Description

The Single-button Autodial with Call push button and keypad, Emergency Telephone described in this section shall be designed for surface mounting on any flat surface or for mounting to a pole, with the appropriate mounting hardware, and shall be designed for indoor or outdoor use. It shall comply with Sections 1.0.0 (Scope and Intent), 5.0.0 (Installation), and 8.0.0 (Equipment Operation) of this specification. The Emergency Telephone shall be designed for single push button emergency activation with handsfree communications following initial telephone line connection. In addition to the single button activation, the emergency telephone shall include a Braille keypad and separate “call” pushbutton for local calling or building access. Pressing the call pushbutton a second time shall enable the caller to place additional calls without disengaging the telephone line.

The Single-button Autodial with Call push button and keypad, Emergency Telephone enclosure shall be designed to hide the mounting hardware from external access when the cover is installed. The cover shall attach to the enclosure with security screws to prevent unplanned access to the telephone’s electronics.

10.5.2 Interconnection

Interconnecting wiring shall be limited to 600 Ohm telephone audio pairs, output control pairs (2), and power supply wiring for applicable options. All external cabling shall be entered through the enclosure per the manufacturer’s installation instructions. All wiring shall be terminated inside the telephone via screw terminals.

10.5.3 Performance Specification

This Single-button Autodial with Call push button and keypad, Emergency Telephone shall meet the following performance and physical specifications:

**Electrical/Audio**

Audio output 1 kHz tone @ 87 ± 3 dB SPL @ 1 meter with 40 mA loop current

Battery Voltage (tip and ring) . 24 V dc or 48 V dc

Phone line requirements Loop start, central office (CO), or

 Analog station port (PBX, PABX, or KSU)

Minimum loop current 24 mA (35 mA recommended)

(2) Auxiliary outputs (Isolated solid-state switch) 48 V dc @ 125 mA

 28 VRMS ac @ 80 mARMS

Signaling DTMF 100 ms tone

Memory Non-volatile EEPROM

**Mechanical**

Operating temperature range

-003 and -004 Models −40º F to +140º F (−40º C to +60º C)

-001 and -002 Models −4º F to +140º F (−20º C to +60º C)

Relative humidity to 95%, no condensation

**Construction:**

Enclosure……………..........................................................Cast aluminum, epoxy finish, painted safety yellow

Dial Pad Chrome-plated zinc

Dimensions 9.5 H × 8.0 W × 4.0 D inches (241.3 × 203.2 × 101.6 mm)

Weight 8.5 lbs. (3.8 kg)

**Approval Standards**

Safety of Information Technology Equipment UL/CSA 60950

Enclosures for Electrical Equipment UL 50, Type 3R

47 CFR Part 68

Certification Number US: ADGTE05BGTC2010

Ringer Equivalence Number .5B

Network connection (USOC) RJ11

IC Information (Canada)

IC Certification Number 882B-GTC 2010

Ringer Equivalence Number .5B

Connection Method CA11A

10.5.4 Peripheral Equipment and Accessories

The following peripheral equipment, options, and accessories shall be offered in support of the Single-button Autodial with Call push button and keypad, Emergency Telephone:

**Voice Annunciation Option,** as specified in section 8.0.0.

**Cold Weather Option,** as specified in section 8.0.0.

**Telephone Pole Mounting Kit** shall be designed to allow mounting of the emergency and assistance telephones to a pole with a maximum diameter of 4-inches.

**L.E.D. Strobe, 120 V ac,** as referenced in section 11.1.0

**L.E.D Strobe, 12-24 V dc**, as referenced in section 11.1.0

**Strobe Mounting Assembly** shall be offered for pole or wall mounting the L.E.D. Strobe.

**Security Screwdriver** shall be offered to permit installation, access, and removal of the Surface-mount Handsfree VoIP Emergency Telephones.

**Telephone Management Application Software** as referenced in section 11.6.0

10.5.5 Equipment Manufacturer and Model Numbers

The Single-button Autodial with Call push button and keypad, Emergency Telephone shall be GAI-Tronics RED ALERT® Model No. **394AL-001**. Options, peripherals, and accessories shall be GAI-Tronics models numbers, specified as:

* **394AL-002** RED ALERT® Single-button, Surface-mount, Aluminum Emergency Telephone with Voice Annunciation option
* **394AL-003** RED ALERT® Single-button, Surface-mount, Aluminum Emergency Telephone with Extreme Cold Temperature option
* **394AL-004** RED ALERT® Single-button, Surface-mount, Aluminum Emergency Telephone with Voice Annunciation option and Extreme Cold Temperature options
* **231-002** Pole Mounting Kit
* **540-001** 120 V ac, L.E.D. Strobe Assembly with constant-on feature
* **541-001** 12-24 V dc,Low Voltage Strobe with programmable constant-on feature
* **4115A** Strobe Assembly Mounting Kit
* **233-001** Security Screwdriver
* **12509-042** Telephone Management Application (TMA) software

10.6.0 Single-button Autodial, Flush-Mount Emergency Telephone, Stainless-steel

10.6.1 Description

The Single-button Autodial, Flush-mount Emergency Telephone described in this section shall be designed for flush mounting on any flat surface, in a suitable stanchion, or in a suitable enclosure that allows surface mounting and shall be suitable for indoor or outdoor use. It shall comply with Sections 1.0.0 (Scope and Intent), 5.0.0 (Installation), and 8.0.0 (Equipment Operation) of this specification. The Emergency Telephone shall be designed for single push button activation with handsfree communications following initial telephone line connection.

The Single-button Autodial, Flush-mount Emergency Telephone shall include a stainless-steel front panel that attaches to a painted, steel back box with security screws to prevent unplanned access to the telephone’s electronics.

10.6.2 Interconnection

Interconnecting wiring shall be limited to 600 Ohm telephone audio pairs, output control pairs (2), and power supply wiring for applicable options. All external cabling shall be entered through the enclosure per the manufacturer’s installation instructions. All wiring shall be terminated inside the telephone via screw terminals.

10.6.3 Performance Specification

This Single-button Autodial, Flush-mount Emergency Telephone shall meet the following performance and physical specifications:

**Electrical/Audio**

Audio output……... 1 kHz tone @ 87 ± 3 dB SPL @ 1 meter with 40 mA loop current

Battery Voltage (tip and ring) 24 V dc or 48 V dc

Phone line requirements Loop start, central office (CO), or

 Analog station port (PBX, PABX, or KSU)

Minimum loop current 24 mA (35 mA recommended)

(2) Auxiliary outputs (Isolated solid-state switch) 48 V dc @ 125 mA

 28 VRMS ac @ 80 mARMS

Signaling DTMF 100 ms tone

Memory Non-volatile EEPROM

**Mechanical**

Operating temperature range

-003 and -004 Models −40º F to +140º F (−40º C to +60º C)

-001 and -002 Models −4º F to +140º F (−20º C to +60º C)

Relative humidity to 95%, no condensation

**Construction**

Panel ................................................................................. 14-gauge, type 304 brushed stainless steel

Back box........................................................ 16-gauge cold-rolled steel with black polyurethane finish

**Dimensions**

Panel ............................................................................... 12.0 H × 10.0 W inches (304.8 × 254.0 mm)

Back box (depth from mounting surface)............................................................ 2.38 inches (60.5 mm)

Panel cutout ................................................................. 10.1 H × 8.43 W inches (255.57 × 214.12 mm)

Weight 6.5 lbs. (2.9 kg)

**Approval Standards**

Safety of Information Technology Equipment UL/CSA 60950

Enclosures for Electrical Equipment UL 50, Type 3R

47 CFR Part 68

Certification Number US: ADGTE05BGTC2010

Ringer Equivalence Number .5B

Network connection (USOC) RJ11

IC Information (Canada)

IC Certification Number 882B-GTC 2010

Ringer Equivalence Number .5B

Connection Method CA11A

10.6.4 Peripheral Equipment and Accessories

The following peripheral equipment, options, and accessories shall be offered in support of the Single-button Autodial, Flush-mount Emergency Telephone:

**Voice Annunciation Option,** as specified in section 8.0.0.

**Cold Weather Option,** as specified in section 8.0.0.

**L.E.D. Strobes,**  as referenced in section 11.1.0.

**Strobe Mounting Assembly** shall be offered for pole or wall mounting the L.E.D. Strobe.

**Security Screwdriver** shall be offered to permit installation, access, and removal of the Emergency and Assistance telephones.

**Free-standing Tower,**  as referenced in section 11.2.0

**Elite Wall-mount Communication Station,**  as referenced in section 11.3.0

**Economy Wall-mount Communication Station**, as referenced in section 11.4.0

**Surface Mount Enclosure** options, as referenced in section 11.5.0

**Telephone Management Application Software,**  as referenced in section 11.6.0.

10.6.5 Equipment Manufacturer and Model Numbers

The Single-button Autodial, Flush-mount Emergency Telephone shall be GAI-Tronics RED ALERT® Model No. **397-001**. Options, peripherals, and accessories shall be GAI-Tronics models numbers, specified as:

* **397-002** RED ALERT® Single-button, Flush-mount Emergency Telephone with Voice Annunciation option
* **397-003** RED ALERT® Single-button, Flush-mount Emergency Telephone with Extreme Cold Temperature option
* **397-004** RED ALERT® Single-button, Flush-mount Emergency Telephone with Voice Annunciation option and Extreme Cold Temperature options
* **540-001** 120 V ac, L.E.D. Strobe Assembly with constant-on feature
* **541-001** 12-24 V dc,Low Voltage Strobe with programmable constant-on feature
* **4115A** Strobe Assembly Mounting Kit
* **234** Free-standing Stanchion, including clear lens assembly and panel light assembly
* **234WM-202** Wall-mount Elite Communication Station, including panel light assembl**y**
* **240WM-00x** Wall-mount Economy Communication Station, including panel light assembly and blue L.E.D. strobe, 120 Vac
* **240WM-00xDC** Wall-mount Economy Communication Station, including panel light assembly and blue L.E.D. strobe, 12-24 Vdc
* **241WM-00x** Wall-mount Economy Communication Station, including blue L.E.D. strobe, 120 Vac
* **241WM-00xDC** Wall-mount Economy Communication Station, including blue L.E.D. strobe, 12-24 Vdc
* **231-003** Pole-mount Kit for Wall-mount Economy Communication Stations
* **236-001xx** Surface-mount Enclosure (xx= RD red, BK black, YL yellow) to provide surface mounting of a flush-mount emergency telephone
* **238-001** Surface Mount Enclosure (brushed stainless steel) to provide surface mounting of a flush-mount emergency telephone
* **233-001** Security Screwdriver
* **12509-042** Telephone Management Application (TMA) software
	1. Single-button Autodial, Flush-Mount Assistance Telephone, Stainless Steel
		1. Description

The Single-button Autodial, Flush-Mount Assistance Telephone described in this section shall be designed for flush mounting on any flat surface, in a suitable stanchion, or in a suitable enclosure that allows surface mounting and shall be suitable for indoor or outdoor use. It shall comply with Sections 1.0.0 (Scope and Intent), 5.0.0 (Installation), and 8.0.0 (Equipment Operation) of this specification. The Emergency Telephone shall be designed for single push button activation with handsfree communications following initial telephone line connection.

The Single-button Autodial, Flush-Mount Assistance Telephone shall include a stainless-steel front panel that attaches to a painted, steel back box with security screws to prevent unplanned access to the telephone’s electronics.

10.7.2 Interconnection

Interconnecting wiring shall be limited to 600 Ohm telephone audio pairs, output control pairs (2), and power supp ly wiring for applicable options. All external cabling shall be entered through the enclosure per the manufacturer’s installation instructions. All wiring shall be terminated inside the telephone via screw terminals.

10.7.3 Performance Specification

This Single-button Autodial, Flush-mount Assistance Telephone shall meet the following performance and physical specifications:

**Electrical/Audio**

Audio output 1 kHz tone @ 87 ± 3 dB SPL @ 1 meter with 40 mA loop current

Battery Voltage (tip and ring) 24 V dc or 48 V dc

Phone line requirements Loop start, central office (CO), or

 Analog station port (PBX, PABX, or KSU)

Minimum loop current 24 mA (35 mA recommended)

(2) Auxiliary outputs (Isolated solid-state switch) 48 V dc @ 125 mA

 28 VRMS ac @ 80 mARMS

Signaling DTMF 100 ms tone

Memory Non-volatile EEPROM

**Mechanical**

Operating temperature range

-003 Model −40º F to +140º F (−40º C to +60º C)

-001 Model −4º F to +140º F (−20º C to +60º C)

Relative humidity to 95%, no condensation

**Construction**

Panel ................................................................................. 14-gauge, type 304 brushed stainless steel

Back box........................................................ 16-gauge cold-rolled steel with black polyurethane finish

**Dimensions**

Panel ............................................................................... 12.0 H × 10.0 W inches (304.8 × 254.0 mm)

Back box (depth from mounting surface)............................................................ 2.38 inches (60.5 mm)

Panel cutout ................................................................. 10.1 H × 8.43 W inches (255.57 × 214.12 mm)

Weight 6.5 lbs. (2.9 kg)

**Approval Standards**

Safety of Information Technology Equipment UL/CSA 60950

Enclosures for Electrical Equipment UL 50, Type 3R

47 CFR Part 68

Certification Number US: ADGTE05BGTC2010

Ringer Equivalence Number .5B

Network connection (USOC) RJ11

IC Information (Canada)

IC Certification Number 882B-GTC 2010

Ringer Equivalence Number .5B

Connection Method CA11A

* + 1. Peripheral Equipment and Accessories

The following peripheral equipment, options, and accessories shall be offered in support of the Single-button Autodial, Flush-mount Emergency Telephone:

**Cold Weather Option,** as specified in section 8.0.0.

**Security Screwdriver** shall be offered to permit installation, access, and removal of the Emergency and Assistance telephones.

**Surface Mount Enclosure** options, as referenced in section 11.5.0

**Telephone Management Application Software,**  as referenced in section 11.6.0.

* + 1. Equipment Manufacturer and Model Numbers

The Single-button Autodial, Flush-Mount Assistance Telephone shall be GAI-Tronics RED ALERT® Model No. **397-001AD**. Options, peripherals, and accessories shall be GAI-Tronics models numbers, specified as:

* **397-003AD** RED ALERT® Single-button, Surface-mount, Non-metallic Assistance Telephone with Extreme Cold Temperature option
* **233-001** Security Screwdriver
* **236-001xx** Surface-mount Enclosure (xx= RD red, BK black, YL yellow) to provide surface mounting of a flush-mount emergency telephone
* **238-001** Surface Mount Enclosure (brushed stainless steel) to provide surface mounting of a flush-mount emergency telephone
* **12509-042** Telephone Management Application (TMA) software

10.8.0 Dual-button Autodial, Flush-Mount Emergency Telephone, Stainless Steel

10.8.1 Description

The Dual-button Autodial, Flush-Mount Emergency Telephone described in this section shall be designed for flush mounting on any flat surface, in a suitable stanchion, or in a suitable enclosure that allows surface mounting and shall be designed for indoor or outdoor use. It shall comply with Sections 1.0.0 (Scope and Intent), 5.0.0 (Installation), and 8.0.0 (Equipment Operation) of this specification. The Emergency Telephone shall be designed for dual, single push button autodial activation. One push button shall be intended for Emergency operation and the other push button shall be intended for Assistance (non-emergency) operation. Both operations shall provide the user handsfree communications following initial telephone line connection.

The Dual-button Autodial, Flush-Mount Emergency Telephone shall include a stainless-steel front panel that attaches to a painted, steel back box with security screws to prevent unplanned access to the telephone’s electronics.

10.8.2 Interconnection

Interconnecting wiring shall be limited to 600 Ohm telephone audio pairs, output control pairs (2), and power supply wiring for applicable options. All external cabling shall be entered through the enclosure per the manufacturer’s installation instructions. All wiring shall be terminated inside the telephone via screw terminals.

10.8.3 Performance Specification

This Dual-button Autodial, Flush-mount Emergency Telephone shall meet the following performance and physical specifications:

**Electrical/Audio**

Audio output 1 kHz tone @ 87 ± 3 dB SPL @ 1 meter with 40 mA loop current

Battery Voltage (tip and ring) 24 V dc or 48 V dc

Phone line requirements Loop start, central office (CO), or

 Analog station port (PBX, PABX, or KSU)

Minimum loop current 24 mA (35 mA recommended)

(2) Auxiliary outputs (Isolated solid-state switch) 48 V dc @ 125 mA

 28 VRMS ac @ 80 mARMS

Signaling DTMF 100 ms tone

Memory Non-volatile EEPROM

**Mechanical**

Operating temperature range

-003 and -004 Models −40º F to +140º F (−40º C to +60º C)

-001 and -002 Models −4º F to +140º F (−20º C to +60º C)

Relative humidity to 95%, no condensation

**Construction**

Panel ................................................................................ 14-gauge, type 304 brushed stainless steel

Back box....................................................... 16-gauge cold-rolled steel with black polyurethane finish

**Dimensions**

Panel ............................................................................... 12.0 H × 10.0 W inches (304.8 × 254.0 mm)

Back box (depth from mounting surface)........................................................... 2.38 inches (60.5 mm)

Panel cutout ................................................................ 10.1 H × 8.43 W inches (255.57 × 214.12 mm)

**Weight** 6.5 lbs. (2.9 kg)

**Approval Standards**

Safety of Information Technology Equipment UL/CSA 60950

Enclosures for Electrical Equipment UL 50, Type 3R

47 CFR Part 68

Certification Number US: ADGTE05BGTC2010

Ringer Equivalence Number .5B

Network connection (USOC) RJ11

IC Information (Canada)

IC Certification Number 882B-GTC 2010

Ringer Equivalence Number .5B

Connection Method CA11A

10.8.4 Peripheral Equipment and Accessories

The following peripheral equipment, options, and accessories shall be offered in support of the Dual-button Autodial, Flush-mount Emergency Telephone:

**Voice Annunciation Option,** as specified in section 8.0.0.

**Cold Weather Option,** as specified in section 8.0.0.

**L.E.D. Strobes,**  as referenced in section 11.1.0.

**Strobe Mounting Assembly** shall be offered for pole or wall mounting the L.E.D. Strobe.

**Security Screwdriver** shall be offered to permit installation, access, and removal of the Emergency and Assistance telephones.

**Free-standing Tower,**  as referenced in section 11.2.0

**Elite Wall-mount Communication Station,**  as referenced in section 11.3.0

**Economy Wall-mount Communication Station**, as referenced in section 11.4.0

**Surface Mount Enclosure** options, as referenced in section 11.5.0

**Telephone Management Application Software,**  as referenced in section 11.6.0.

10.8.5 Equipment Manufacturer and Model Numbers

The Dual-button Autodial, Flush-mount Emergency Telephone shall be GAI-Tronics RED ALERT® Model No. **396-001**. Options, peripherals, and accessories shall be GAI-Tronics models numbers, specified as:

* **396-002** RED ALERT® Single-button, Flush-mount Emergency Telephone with Voice Annunciation option
* **396-003** RED ALERT® Single-button, Flush-mount Emergency Telephone with Extreme Cold Temperature option
* **396-004** RED ALERT® Single-button, Flush-mount Emergency Telephone with Voice Annunciation option and Extreme Cold Temperature options
* **540-001** 120 V ac, L.E.D. Strobe Assembly with constant-on feature
* **541-001** 12-24 V dc,Low Voltage Strobe with programmable constant-on feature
* **4115A** Strobe Assembly Mounting Kit
* **234** Free-standing Stanchion, including clear lens assembly and panel light assembly
* **234WM-202** Wall-mount Elite Communication Station, including panel light assembl**y**
* **240WM-00x** Wall-mount Economy Communication Station, including panel light assembly and blue L.E.D. strobe, 120 Vac
* **240WM-00xDC** Wall-mount Economy Communication Station, including panel light assembly and blue L.E.D. strobe, 12-24 Vdc
* **241WM-00x** Wall-mount Economy Communication Station, including blue L.E.D. strobe, 120 Vac
* **241WM-00xDC** Wall-mount Economy Communication Station, including blue L.E.D. strobe, 12-24 Vdc
* **231-003** Pole-mount Kit for Wall-mount Economy Communication Stations
* **236-001xx** Surface-mount Enclosure (xx= RD red, BK black, YL yellow) to provide surface mounting of a flush-mount emergency telephone
* **238-001** Surface Mount Enclosure (brushed stainless steel) to provide surface mounting of a flush-mount emergency telephone
* **233-001** Security Screwdriver
* **12509-042** Telephone Management Application (TMA) software

10.9.0 Single-button Autodial with Call push button and keypad, Flush-mount Emergency Telephone, Stainless Steel

10.9.1 Description

The Single-button Autodial with Call push button and keypad, Flush-mount Emergency Telephone described in this section shall be designed for flush mounting on any flat surface, in a suitable stanchion, or in a suitable enclosure that allows surface mounting and shall be designed for indoor or outdoor use. It shall comply with Sections 1.0.0 (Scope and Intent), 5.0.0 (Installation), and 8.0.0 (Equipment Operation) of this specification. The Emergency Telephone shall be designed for single push button emergency activation with handsfree communications following initial telephone line connection. In addition to the single button activation, the emergency telephone shall include a Braille keypad and separate “call” pushbutton for local calling or building access. Pressing the call pushbutton a second time shall enable the caller to place additional calls without disengaging the telephone line.

The Single-button Autodial with Call push button and keypad, Flush-mount Emergency Telephone shall include a stainless-steel front panel that attaches to painted, steel back box with security screws to prevent unplanned access to the telephone’s electronics.

10.9.2 Interconnection

Interconnecting wiring shall be limited to 600 Ohm telephone audio pairs, output control pairs (2), and power supply wiring for applicable options. All external cabling shall be entered through the enclosure per the manufacturer’s installation instructions. All wiring shall be terminated inside the telephone via screw terminals.

10.9.3 Performance Specification

This Single-button Autodial with Call push button and keypad, Flush-mount Emergency Telephone shall meet the following performance and physical specifications:

**Electrical/Audio**

Audio output 1 kHz tone @ 87 ± 3 dB SPL @ 1 meter with 40 mA loop current

Battery Voltage (tip and ring) 24 V dc or 48 V dc

Phone line requirements Loop start, central office (CO), or

 Analog station port (PBX, PABX, or KSU)

Minimum loop current 24 mA (35 mA recommended)

(2) Auxiliary outputs (Isolated solid-state switch) 48 V dc @ 125 mA

 28 VRMS ac @ 80 mARMS

Signaling DTMF 100 ms tone

Memory Non-volatile EEPROM

**Mechanical**

Operating temperature range

-003 and -004 Models −40º F to +140º F (−40º C to +60º C)

-001 and -002 Models −4º F to +140º F (−20º C to +60º C)

Relative humidity to 95%, no condensation

**Construction**

Panel ................................................................................. 14-gauge, type 304 brushed stainless steel

Dial Pad Chrome-plated zinc

Back box....................................................... 16-gauge cold-rolled steel with black polyurethane finish

**Dimensions**

Panel ............................................................................... 12.0 H × 10.0 W inches (304.8 × 254.0 mm)

Back box (depth from mounting surface)........................................................... 2.38 inches (60.5 mm)

Panel cutout ................................................................ 10.1 H × 8.43 W inches (255.57 × 214.12 mm)

**Weight** 7.2 lbs. (3.3 kg)

**Approval Standards**

Safety of Information Technology Equipment UL/CSA 60950

Enclosures for Electrical Equipment UL 50, Type 3R

47 CFR Part 68

Certification Number US: ADGTE05BGTC2010

Ringer Equivalence Number .5B

Network connection (USOC) RJ11

IC Information (Canada)

IC Certification Number 882B-GTC 2010

Ringer Equivalence Number .5B

Connection Method CA11A

10.9.4 Peripheral Equipment and Accessories

The following peripheral equipment, options, and accessories shall be offered in support of the Single-button Autodial with Call push button and keypad, Flush-mount Emergency Telephone:

**Voice Annunciation Option,** as specified in section 8.0.0.

**Cold Weather Option,** as specified in section 8.0.0.

**L.E.D. Strobes,**  as referenced in section 11.1.0.

**Strobe Mounting Assembly** shall be offered for pole or wall mounting the L.E.D. Strobe.

**Security Screwdriver** shall be offered to permit installation, access, and removal of the Emergency and Assistance telephones.

**Free-standing Tower,**  as referenced in section 11.2.0

**Elite Wall-mount Communication Station,**  as referenced in section 11.3.0

**Economy Wall-mount Communication Station**, as referenced in section 11.4.0

**Surface Mount Enclosure** options, as referenced in section 11.5.0

**Telephone Management Application Software,**  as referenced in section 11.6.0.

10.9.5 Equipment Manufacturer and Model Numbers

This Single-button Autodial with Call push button and keypad, Flush-mount Emergency Telephone shall be GAI-Tronics RED ALERT® Model No. **398-001**. Options, peripherals, and accessories shall be GAI-Tronics models numbers, specified as:

* **398-002** RED ALERT® Single-button, Flush-mount Emergency Telephone with Voice Annunciation option
* **398-003** RED ALERT® Single-button, Flush-mount Emergency Telephone with Extreme Cold Temperature option
* **398-004** RED ALERT® Single-button, Flush-mount Emergency Telephone with Voice Annunciation option and Extreme Cold Temperature options
* **540-001** 120 V ac, L.E.D. Strobe Assembly with constant-on feature
* **541-001** 12-24 V dc,Low Voltage Strobe with programmable constant-on feature
* **4115A** Strobe Assembly Mounting Kit
* **234** Free-standing Stanchion, including clear lens assembly and panel light assembly
* **234WM-202** Wall-mount Elite Communication Station, including panel light assembl**y**
* **240WM-00x** Wall-mount Economy Communication Station, including panel light assembly and blue L.E.D. strobe, 120 Vac
* **240WM-00xDC** Wall-mount Economy Communication Station, including panel light assembly and blue L.E.D. strobe, 12-24 Vdc
* **241WM-00x** Wall-mount Economy Communication Station, including blue L.E.D. strobe, 120 Vac
* **241WM-00xDC** Wall-mount Economy Communication Station, including blue L.E.D. strobe, 12-24 Vdc
* **231-003** Pole-mount Kit for Wall-mount Economy Communication Stations
* **236-001xx** Surface-mount Enclosure (xx= RD red, BK black, YL yellow) to provide surface mounting of a flush-mount emergency telephone
* **238-001** Surface Mount Enclosure (brushed stainless steel) to provide surface mounting of a flush-mount emergency telephone
* **233-001** Security Screwdriver
* **12509-042** Telephone Management Application (TMA) software

10.10.0 Call Push Button and Keypad, Flush-mount Access Telephone, Stainless Steel

10.10.1 Description

The Call Push Button and Keypad, Flush-mount Access Telephone described in this section shall be designed for flush mounting on any flat surface, in a suitable stanchion, or in a suitable enclosure that allows surface mounting and shall be designed for indoor or outdoor use. It shall be designed for standard analog telephone line operation and shall include a “call” pushbutton for access to dial tone and an integral Braille keypad for dialing. It shall comply with Sections 1.0.0 (Scope and Intent), 5.0.0 (Installation), and 8.0.0 (Equipment Operation) of this specification. This Access Telephone shall be designed for handsfree communications following initial telephone line connection. After initial activation and line use, pressing the call pushbutton a second time shall enable the caller to place additional calls without disengaging the telephone line.

The Call Push Button and Keypad, Flush-mount Access Telephone shall include a stainless-steel front panel that attaches to painted, steel back box with security screws to prevent unplanned access to the telephone’s electronics.

10.10.2 Interconnection

Interconnecting wiring shall be limited to 600 Ohm telephone audio pairs, output control pairs (2), and power supply wiring for applicable options. All external cabling shall be entered through the enclosure per the manufacturer’s installation instructions. All wiring shall be terminated inside the telephone via screw terminals.

10.10.3 Performance Specification

This Call Push Button and Keypad, Flush-mount Access Telephone shall meet the following performance and physical specifications:

**Electrical/Audio**

Audio output 1 kHz tone @ 87 ± 3 dB SPL @ 1 meter with 40 mA loop current

Battery Voltage (tip and ring) 24 V dc or 48 V dc

Phone line requirements Loop start, central office (CO), or

 Analog station port (PBX, PABX, or KSU)

Minimum loop current 24 mA (35 mA recommended)

(2) Auxiliary outputs (Isolated solid-state switch) 48 V dc @ 125 mA

 28 VRMS ac @ 80 mARMS

Signaling DTMF 100 ms tone

Memory Non-volatile EEPROM

**Mechanical**

Operating temperature range −4º F to +140º F (−20º C to +60º C)

Relative humidity to 95%, no condensation

**Construction**

Panel ................................................................................ 14-gauge, type 304 brushed stainless steel

Dial Pad Chrome-plated zinc

Back box....................................................... 16-gauge cold-rolled steel with black polyurethane finish

**Dimensions**

Panel ............................................................................... 12.0 H × 10.0 W inches (304.8 × 254.0 mm)

Back box (depth from mounting surface)........................................................... 2.38 inches (60.5 mm)

Panel cutout ................................................................ 10.1 H × 8.43 W inches (255.57 × 214.12 mm)

**Weight** 7.2 lbs. (3.3 kg)

**Approval Standards**

Safety of Information Technology Equipment UL/CSA 60950

Enclosures for Electrical Equipment UL 50, Type 3R

47 CFR Part 68

Certification Number US: ADGTE05BGTC2010

Ringer Equivalence Number .5B

Network connection (USOC) RJ11

IC Information (Canada)

IC Certification Number 882B-GTC 2010

Ringer Equivalence Number .5B

Connection Method CA11A

10.10.4 Peripheral Equipment and Accessories

The following peripheral equipment, options, and accessories shall be offered in support of the Call Push Button and Keypad, Flush-mount Access Telephone:

**Security Screwdriver** shall be offered to permit installation, access, and removal of the Emergency and Assistance telephones.

**Surface Mount Enclosure** options, as referenced in section 11.5.0

**Telephone Management Application Software,**  as referenced in section 11.6.0.

10.10.5 Equipment Manufacturer and Model Numbers

This Call Push Button and Keypad, Flush-mount Access Telephone shall be GAI-Tronics RED ALERT® Model No. **392-001**. Options, peripherals, and accessories shall be GAI-Tronics models numbers, specified as:

* **236-001xx** Surface-mount Enclosure (xx= RD red, BK black, YL yellow) to provide surface mounting of a flush-mount emergency telephone
* **238-001** Surface Mount Enclosure (brushed stainless steel) to provide surface mounting of a flush-mount emergency telephone
* **233-001** Security Screwdriver
* **12509-042** Telephone Management Application (TMA) software

10.11.0 Single-button Autodial, Flush-Mount Ramtel Retrofit (6-hole), Emergency Telephone, Stainless Steel

10.11.1 Description

The Single-button Autodial, Flush-mount Ramtel Retrofit Emergency Telephone described in this section shall be designed for flush mounting on any flat surface or in a Ramtel enclosure that allows surface mounting and shall be suitable for indoor or outdoor use. It shall comply with Sections 1.0.0 (Scope and Intent), 5.0.0 (Installation), and 8.0.0 (Equipment Operation) of this specification. The Emergency Telephone shall be designed for single push button activation with handsfree communications following initial telephone line connection. The Emergency Telephone shall be designed to mount in an existing Ramtel telephone, 6-hole panel cut-out.

The Single-button Autodial, Flush-mount Ramtel Retrofit Emergency Telephone shall include a stainless-steel front panel that attaches to painted, steel back box with security screws to prevent unplanned access to the telephone’s electronics.

10.11.2 Interconnection

Interconnecting wiring shall be limited to 600 Ohm telephone audio pairs, output control pairs (2), and power supply wiring for applicable options. All external cabling shall be entered through the enclosure per the manufacturer’s installation instructions. All wiring shall be terminated inside the telephone via screw terminals.

10.11.3 Performance Specification

This Single-button Autodial, Flush-mount Ramtel Retrofit Emergency Telephone shall meet the following performance and physical specifications:

**Electrical/Audio**

Audio output 1 kHz tone @ 87 ± 3 dB SPL @ 1 meter with 40 mA loop current

Battery Voltage (tip and ring) 24 V dc or 48 V dc

Phone line requirements Loop start, central office (CO), or

 Analog station port (PBX, PABX, or KSU)

Minimum loop current 24 mA (35 mA recommended)

(2) Auxiliary outputs (Isolated solid-state switch) 48 V dc @ 125 mA

 28 VRMS ac @ 80 mARMS

Signaling DTMF 100 ms tone

Memory Non-volatile EEPROM

**Mechanical**

Operating temperature range

-003 and -004 Models −40º F to +140º F (−40º C to +60º C)

-001 and -002 Models −4º F to +140º F (−20º C to +60º C)

Relative humidity to 95%, no condensation

**Construction**

Panel ................................................................................ 14-gauge, type 304 brushed stainless steel

Back box....................................................... 16-gauge cold-rolled steel with black polyurethane finish

**Dimensions**

Panel .............................................................. 11.88 × 8.25 × 2.68 inches (301.6 × 209.6 × 68.1 mm)

Back box (depth mounting surface)................................................................... 2.48 inches (63.0 mm)

Panel cutout ........................................................................ 9.85 x 6.75 inches (250.19 x 171.45 mm)

**Weight** 6.0 lbs. (2.7 kg)

**Approval Standards**

Safety of Information Technology Equipment UL/CSA 60950

Enclosures for Electrical Equipment UL 50, Type 3R

47 CFR Part 68

Certification Number US: ADGTE05BGTC2010

Ringer Equivalence Number .5B

Network connection (USOC) RJ11

IC Information (Canada)

IC Certification Number 882B-GTC 2010

Ringer Equivalence Number .5B

Connection Method CA11A

10.11.4 Peripheral Equipment and Accessories

The following peripheral equipment, options, and accessories shall be offered in support of the Single-button Autodial, Flush-mount Ramtel Retrofit Emergency Telephone:

**Voice Annunciation Option,** as specified in section 8.0.0.

**Cold Weather Option,** as specified in section 8.0.0.

**L.E.D. Strobes,**  as referenced in section 11.1.0.

**Strobe Mounting Assembly** shall be offered for pole or wall mounting the L.E.D. Strobe.

**Security Screwdriver** shall be offered to permit installation, access, and removal of the Emergency and Assistance telephones.

**Telephone Management Application Software,**  as referenced in section 11.6.0.

10.11.5 Equipment Manufacturer and Model Numbers

The Single-button Autodial, Flush-mount Ramtel Retrofit Emergency Telephone shall be GAI-Tronics RED ALERT® Model No. **397-001RT**. Options, peripherals, and accessories shall be GAI-Tronics models numbers, specified as:

* **397-002RT** RED ALERT® Single-button, Flush-mount Emergency Telephone with Voice Annunciation option
* **397-003RT** RED ALERT® Single-button, Flush-mount Emergency Telephone with Extreme Cold Temperature option
* **397-004RT** RED ALERT® Single-button, Flush-mount Emergency Telephone with Voice Annunciation option and Extreme Cold Temperature options
* **540-001** 120 V ac, L.E.D. Strobe Assembly with constant-on feature
* **541-001** 12-24 V dc,Low Voltage Strobe with programmable constant-on feature
* **4115A** Strobe Assembly Mounting Kit
* **233-001** Security Screwdriver
* **12509-042** Telephone Management Application (TMA) software

10.12.0 Single-button Autodial with Call Pushbutton and Keypad, Flush-mount Ramtel Retrofit (6-hole) Emergency Telephone, Stainless Steel

10.12.1 Description

The Single-button Autodial with Call Pushbutton and Keypad, Flush-mount Ramtel Retrofit Emergency Telephone described in this section shall be designed for flush mounting on any flat surface or in a Ramtel enclosure that allows surface mounting and shall be suitable for indoor or outdoor use. It shall comply with Sections 1.0.0 (Scope and Intent), 5.0.0 (Installation), and 8.0.0 (Equipment Operation) of this specification. The Emergency Telephone shall be designed for single push button emergency activation with handsfree communications following initial telephone line connection. In addition to the single button activation, the emergency telephone shall include a Braille keypad and separate “call” pushbutton for local calling or building access. Pressing the call pushbutton a second time shall enable the caller to place additional calls without disengaging the telephone line. The Emergency Telephone shall be designed to mount in an existing Ramtel telephone, 6-hole panel cut-out.

The Single-button Autodial with Call Pushbutton and Keypad, Flush-mount Ramtel Retrofit Emergency Telephone shall include a stainless-steel front panel that attaches to painted, steel back box with security screws to prevent unplanned access to the telephone’s electronics.

10.12.2 Interconnection

Interconnecting wiring shall be limited to 600 Ohm telephone audio pairs, output control pairs (2), and power supply wiring for applicable options. All external cabling shall be entered through the enclosure per the manufacturer’s installation instructions. All wiring shall be terminated inside the telephone via screw terminals.

10.12.3 Performance Specification

This Single-button Autodial with Call Pushbutton and Keypad, Flush-mount Ramtel Retrofit Emergency Telephone shall meet the following performance and physical specifications:

**Electrical/Audio**

Audio output 1 kHz tone @ 87 ± 3 dB SPL @ 1 meter with 40 mA loop current

Battery Voltage (tip and ring) 24 V dc or 48 V dc

Phone line requirements Loop start, central office (CO), or

 Analog station port (PBX, PABX, or KSU)

Minimum loop current 24 mA (35 mA recommended)

(2) Auxiliary outputs (Isolated solid-state switch) 48 V dc @ 125 mA

 28 VRMS ac @ 80 mARMS

Signaling DTMF 100 ms tone

Memory Non-volatile EEPROM

**Mechanical**

Operating temperature range

-003 and -004 Models −40º F to +140º F (−40º C to +60º C)

-001 and -002 Models −4º F to +140º F (−20º C to +60º C)

Relative humidity to 95%, no condensation

**Construction**

Panel ................................................................................. 14-gauge, type 304 brushed stainless steel

Dial Pad Chrome-plated zinc

Back box....................................................... 16-gauge cold-rolled steel with black polyurethane finish

**Dimensions**

Panel (with back box attached) ...................... 11.88 × 8.25 × 2.68 inches (301.6 × 209.6 × 68.1 mm)

Back box (depth from mounting surface)........................................................... 2.48 inches (63.0 mm)

Panel cutout ........................................................................ 9.85 x 6.75 inches (250.19 x 171.45 mm)

Weight 6.7 lbs. (3.0 kg)

**Approval Standards**

Safety of Information Technology Equipment UL/CSA 60950

Enclosures for Electrical Equipment UL 50, Type 3R

47 CFR Part 68

Certification Number US: ADGTE05BGTC2010

Ringer Equivalence Number .5B

Network connection (USOC) RJ11

IC Information (Canada)

IC Certification Number 882B-GTC 2010

Ringer Equivalence Number .5B

Connection Method CA11A

10.12.4 Peripheral Equipment and Accessories

The following peripheral equipment, options, and accessories shall be offered in support of the Single-button Autodial with Call Pushbutton and Keypad, Flush-mount Ramtel Retrofit Emergency Telephone:

**Voice Annunciation Option,** as specified in section 8.0.0.

**Cold Weather Option,** as specified in section 8.0.0.

**L.E.D. Strobes,**  as referenced in section 11.1.0.

**Strobe Mounting Assembly** shall be offered for pole or wall mounting the L.E.D. Strobe.

**Security Screwdriver** shall be offered to permit installation, access, and removal of the Emergency and Assistance telephones.

**Telephone Management Application Software,**  as referenced in section 11.6.0.

10.12.5 Equipment Manufacturer and Model Numbers

This Single-button Autodial with Call Pushbutton and Keypad, Flush-mount Ramtel Retrofit Emergency Telephone shall be GAI-Tronics RED ALERT® Model No. **398-001RT**. Options, peripherals, and accessories shall be GAI-Tronics models numbers, specified as:

* **398-002RT** RED ALERT® Single-button, Flush-mount Emergency Telephone with Voice Annunciation option
* **398-003RT** RED ALERT® Single-button, Flush-mount Emergency Telephone with Extreme Cold Temperature option
* **398-004RT** RED ALERT® Single-button, Flush-mount Emergency Telephone with Voice Annunciation option and Extreme Cold Temperature options
* **540-001** 120 V ac, L.E.D. Strobe Assembly with constant-on feature
* **541-001** 12-24 V dc,Low Voltage Strobe with programmable constant-on feature
* **4115A** Strobe Assembly Mounting Kit
* **233-001** Security Screwdriver
* **12509-042** Telephone Management Application (TMA) software

10.13.0 Single-button Autodial, Flush-Mount Code Blue Retrofit (6-hole) Code Blue Retrofit (6-hole) Emergency Telephone, Stainless Steel

10.13.1 Description

The Single-button Autodial, Flush-Mount Code Blue Retrofit (6-hole) Code Blue Retrofit (6-hole) Emergency Telephone described in this section shall be designed for flush mounting on any flat surface or in a Code Blue enclosure that allows surface mounting and shall be suitable for indoor or outdoor use. It shall comply with Sections 1.0.0 (Scope and Intent) and 8.0.0 (Equipment Operation) of this specification. The Emergency Telephone shall be designed for single push button activation with handsfree communications following initial telephone line connection. The Emergency Telephone shall be designed to mount in an existing Code Blue telephone, 6-hole panel cut-out.

The Single-button Autodial, Flush-Mount Code Blue Retrofit (6-hole) Code Blue Retrofit (6-hole) Emergency Telephone shall include a stainless-steel front panel that attaches to painted, steel back box with security screws to prevent unplanned access to the telephone’s electronics.

10.13.2 Interconnection

Interconnecting wiring shall be limited to 600 Ohm telephone audio pairs, output control pairs (2), and power supply wiring for applicable options. All external cabling shall be entered through the enclosure per the manufacturer’s installation instructions. All wiring shall be terminated inside the telephone via screw terminals.

10.13.3 Performance Specification

This Single-button Autodial, Flush-mount Code Blue Retrofit Emergency Telephone shall meet the following performance and physical specifications:

**Electrical/Audio**

Audio output 1 kHz tone @ 87 ± 3 dB SPL @ 1 meter with 40 mA loop current

Battery Voltage (tip and ring) 24 V dc or 48 V dc

Phone line requirements Loop start, central office (CO), or

 Analog station port (PBX, PABX, or KSU)

Minimum loop current 24 mA (35 mA recommended)

(2) Auxiliary outputs (Isolated solid-state switch) 48 V dc @ 125 mA

 28 VRMS ac @ 80 mARMS

Signaling DTMF 100 ms tone

Memory Non-volatile EEPROM

**Mechanical**

Operating temperature range

-003 and -004 Models −40º F to +140º F (−40º C to +60º C)

-001 and -002 Models −4º F to +140º F (−20º C to +60º C)

Relative humidity to 95%, no condensation

**Construction**

Panel ................................................................................ 14-gauge, type 304 brushed stainless steel

 Back box....................................................... 16-gauge cold-rolled steel with black polyurethane finish

**Dimensions**

Panel ............................................................... 11.75 × 8.50 × 2.68 inches (298.5 × 215.9 × 68.1 mm)

Back box (depth mounting surface).................................................................... 2.48 inches (63.0 mm)

Panel cutout ......................................................................... 9.85 x 6.75 inches (250.19 x 171.45 mm)

Weight 6.0 lbs. (2.7 kg)

**Approval Standards**

Safety of Information Technology Equipment UL/CSA 60950

Enclosures for Electrical Equipment UL 50, Type 3R

47 CFR Part 68

Certification Number US: ADGTE05BGTC2010

Ringer Equivalence Number .5B

Network connection (USOC) RJ11

IC Information (Canada)

IC Certification Number 882B-GTC 2010

Ringer Equivalence Number .5B

Connection Method CA11A

10.13.4 Peripheral Equipment and Accessories

The following peripheral equipment, options, and accessories shall be offered in support of the Single-button Autodial, Flush-mount Code Blue Retrofit Emergency Telephone:

**Voice Annunciation Option,** as specified in section 8.0.0.

**Cold Weather Option,** as specified in section 8.0.0.

**L.E.D. Strobes,**  as referenced in section 11.1.0.

**Strobe Mounting Assembly** shall be offered for pole or wall mounting the L.E.D. Strobe.

**Security Screwdriver** shall be offered to permit installation, access, and removal of the Emergency and Assistance telephones.

**Telephone Management Application Software,**  as referenced in section 11.6.0.

10.13.5 Equipment Manufacturer and Model Numbers

The Single-button Autodial, Flush-mount Code Blue Retrofit Emergency Telephone shall be GAI-Tronics RED ALERT® Model No. **397-001CB**. Options, peripherals, and accessories shall be GAI-Tronics models numbers, specified as:

* **397-002CB** RED ALERT® Single-button, Flush-mount Emergency Telephone with Voice Annunciation option
* **397-003CB** RED ALERT® Single-button, Flush-mount Emergency Telephone with Extreme Cold Temperature option
* **397-004CB** RED ALERT® Single-button, Flush-mount Emergency Telephone with Voice Annunciation option and Extreme Cold Temperature options
* **540-001** 120 V ac, L.E.D. Strobe Assembly with constant-on feature
* **541-001** 12-24 V dc,Low Voltage Strobe with programmable constant-on feature
* **4115A** Strobe Assembly Mounting Kit
* **233-001** Security Screwdriver
* **12509-042** Telephone Management Application (TMA) software

10.14.0 Single-button Autodial with Call Pushbutton and Keypad, Flush-mount Code Blue Retrofit (6-hole) Emergency Telephone, Stainless Steel

10.14.1 Description

The Single-button Autodial with Call Pushbutton and Keypad, Flush-mount Code Blue Retrofit Emergency Telephone described in this section shall be designed for flush mounting on any flat surface or in a Code Blue enclosure that allows surface mounting and shall be designed for indoor or outdoor use. It shall comply with with Sections 1.0.0 (Scope and Intent), 5.0.0 (Installation), and 8.0.0 (Equipment Operation) of this specification. The Emergency Telephone shall be designed for single push button emergency activation with handsfree communications following initial telephone line connection. In addition to the single button activation, the emergency telephone shall include a Braille keypad and separate “call” pushbutton for local calling or building access. Pressing the call pushbutton a second time shall enable the caller to place additional calls without disengaging the telephone line. The Emergency Telephone shall be designed to mount in an existing Code Blue telephone, 6-hole panel cut-out.

The Single-button Autodial with Call Pushbutton and Keypad, Flush-mount Code Blue Retrofit Emergency Telephone shall include a stainless-steel front panel that attaches to painted, steel back box with security screws to prevent unplanned access to the telephone’s electronics.

10.14.2 Interconnection

Interconnecting wiring shall be limited to 600 Ohm telephone audio pairs, output control pairs (2), and power supply wiring for applicable options. All external cabling shall be entered through the enclosure per the manufacturer’s installation instructions. All wiring shall be terminated inside the telephone via screw terminals.

10.14.3 Performance Specification

This Single-button Autodial with Call Pushbutton and Keypad, Flush-mount Code Blue Retrofit Emergency Telephone shall meet the following performance and physical specifications:

**Electrical/Audio**

Audio output 1 kHz tone @ 87 ± 3 dB SPL @ 1 meter with 40 mA loop current

Battery Voltage (tip and ring) 24 V dc or 48 V dc

Phone line requirements Loop start, central office (CO), or

 Analog station port (PBX, PABX, or KSU)

Minimum loop current 24 mA (35 mA recommended)

(2) Auxiliary outputs (Isolated solid-state switch) 48 V dc @ 125 mA

 28 VRMS ac @ 80 mARMS

Signaling DTMF 100 ms tone

Memory Non-volatile EEPROM

**Mechanical**

Operating temperature range

-003 and -004 Models −40º F to +140º F (−40º C to +60º C)

-001 and -002 Models −4º F to +140º F (−20º C to +60º C)

Relative humidity to 95%, no condensation

**Construction**

Panel ................................................................................ 14-gauge, type 304 brushed stainless steel

Dial Pad Chrome-plated zinc

Back box....................................................... 16-gauge cold-rolled steel with black polyurethane finish

**Dimensions**

Panel (with back box attached) ....................... 11.75 × 8.50 × 2.68 inches (298.5 × 215.9 × 68.1 mm)

Back box (depth from mounting surface)............................................................ 2.48 inches (63.0 mm)

Panel cutout ......................................................................... 9.85 x 6.75 inches (250.19 x 171.45 mm)

**Weight** 6.7 lbs. (3.0 kg)

**Approval Standards**

Safety of Information Technology Equipment UL/CSA 60950

Enclosures for Electrical Equipment UL 50, Type 3R

47 CFR Part 68

Certification Number US: ADGTE05BGTC2010

Ringer Equivalence Number .5B

Network connection (USOC) RJ11

IC Information (Canada)

IC Certification Number 882B-GTC 2010

Ringer Equivalence Number .5B

Connection Method CA11A

10.14.4 Peripheral Equipment and Accessories

The following peripheral equipment, options, and accessories shall be offered in support of the Single-button Autodial with Call Pushbutton and Keypad, Flush-mount Code Blue Retrofit Emergency Telephone:

**Voice Annunciation Option,** as specified in section 8.0.0.

**Cold Weather Option,** as specified in section 8.0.0.

**L.E.D. Strobes,**  as referenced in section 11.1.0.

**Strobe Mounting Assembly** shall be offered for pole or wall mounting the L.E.D. Strobe.

**Security Screwdriver** shall be offered to permit installation, access, and removal of the Emergency and Assistance telephones.

**Telephone Management Application Software,**  as referenced in section 11.6.0.

10.14.5 Equipment Manufacturer and Model Numbers

This Single-button Autodial with Call Pushbutton and Keypad, Flush-mount Code Blue Retrofit Emergency Telephone shall be GAI-Tronics RED ALERT® Model No. **398-001CB**. Options, peripherals, and accessories shall be GAI-Tronics models numbers, specified as:

* **398-002CB** RED ALERT® Single-button, Flush-mount Emergency Telephone with Voice Annunciation option
* **398-003CB** RED ALERT® Single-button, Flush-mount Emergency Telephone with Extreme Cold Temperature option
* **398-004CB** RED ALERT® Single-button, Flush-mount Emergency Telephone with Voice Annunciation option and Extreme Cold Temperature options
* **540-001** 120 V ac, L.E.D. Strobe Assembly with constant-on feature
* **541-001** 12-24 V dc,Low Voltage Strobe with programmable constant-on feature
* **4115A** Strobe Assembly Mounting Kit
* **233-001** Security Screwdriver
* **12509-042** Telephone Management Application (TMA) software

10.15.0 Single-button Autodial, Flush-Mount Talk-A-Phone Retrofit (6-hole) Emergency Telephone; Stainless Steel

10.15.1 Description

The Single-button Autodial, Flush-Mount Talk-A-Phone Retrofit Emergency Telephone described in this section shall be designed for flush mounting on any flat surface or in a Talk-a-Phone enclosure that allows surface mounting and shall be suitable for indoor or outdoor use. It shall comply with Sections 1.0.0 (Scope and Intent), 5.0.0 (Installation), and 8.0.0 (Equipment Operation) of this specification. The Emergency Telephone shall be designed for single push button activation with handsfree communications following initial telephone line connection. The Emergency Telephone shall be designed to mount in an existing Talk-A-Phone telephone, 6-hole panel cut-out.

The Single-button Autodial, Flush-Mount Talk-A-Phone Retrofit Emergency Telephone shall include a stainless-steel front panel that attaches to painted, steel back box with security screws to prevent unplanned access to the telephone’s electronics.

10.15.2 Interconnection

Interconnecting wiring shall be limited to 600 Ohm telephone audio pairs, output control pairs (2), and power supply wiring for applicable options. All external cabling shall be entered through the enclosure per the manufacturer’s installation instructions. All wiring shall be terminated inside the telephone via screw terminals.

10.15.3 Performance Specification

This Single-button Autodial, Flush-mount Talk-A-Phone Retrofit Emergency Telephone shall meet the following performance and physical specifications:

**Electrical/Audio**

Audio output 1 kHz tone @ 87 ± 3 dB SPL @ 1 meter with 40 mA loop current

Battery Voltage (tip and ring) 24 V dc or 48 V dc

Phone line requirements Loop start, central office (CO), or

 Analog station port (PBX, PABX, or KSU)

Minimum loop current 24 mA (35 mA recommended)

(2) Auxiliary outputs (Isolated solid-state switch) 48 V dc @ 125 mA

 28 VRMS ac @ 80 mARMS

Signaling DTMF 100 ms tone

Memory Non-volatile EEPROM

**Mechanical**

Operating temperature range

-003 and -004 Models −40º F to +140º F (−40º C to +60º C)

-001 and -002 Models −4º F to +140º F (−20º C to +60º C)

Relative humidity to 95%, no condensation

**Construction**

Panel .................................................................................14-gauge, type 304 brushed stainless steel

Back box……………………………..…………16-gauge cold-rolled steel with black polyurethane finish

**Dimensions**

Panel .............................................................. 11.88 × 8.25 × 2.68 inches (301.6 × 209.6 × 68.1 mm)

Back box (depth mounting surface)................................................................... 2.48 inches (63.0 mm)

Panel cutout ........................................................................ 9.85 x 6.75 inches (250.19 x 171.45 mm)

**Weight** 6.0 lbs. (2.7 kg)

**Approval Standards**

Safety of Information Technology Equipment UL/CSA 60950

Enclosures for Electrical Equipment UL 50, Type 3R

47 CFR Part 68

Certification Number US: ADGTE05BGTC2010

Ringer Equivalence Number .5B

Network connection (USOC) RJ11

IC Information (Canada)

IC Certification Number 882B-GTC 2010

Ringer Equivalence Number .5B

Connection Method CA11A

10.15.4 Peripheral Equipment and Accessories

The following peripheral equipment, options, and accessories shall be offered in support of the Single-button Autodial, Flush-mount Talk-A-Phone Retrofit Emergency Telephone:

**Voice Annunciation Option,** as specified in section 8.0.0.

**Cold Weather Option,** as specified in section 8.0.0.

**L.E.D. Strobes,**  as referenced in section 11.1.0.

**Strobe Mounting Assembly** shall be offered for pole or wall mounting the L.E.D. Strobe.

**Security Screwdriver** shall be offered to permit installation, access, and removal of the Emergency and Assistance telephones.

**Telephone Management Application Software,**  as referenced in section 11.6.0.

10.15.5 Equipment Manufacturer and Model Numbers

The Single-button Autodial, Flush-mount Talk-A-Phone Retrofit Emergency Telephone shall be GAI-Tronics RED ALERT® Model No. **397-001TP**. Options, peripherals, and accessories shall be GAI-Tronics models numbers, specified as:

* **397-002TP** RED ALERT® Single-button, Flush-mount Emergency Telephone with Voice Annunciation option
* **397-003TP** RED ALERT® Single-button, Flush-mount Emergency Telephone with Extreme Cold Temperature option
* **397-004TP** RED ALERT® Single-button, Flush-mount Emergency Telephone with Voice Annunciation option and Extreme Cold Temperature options
* **540-001** 120 V ac, L.E.D. Strobe Assembly with constant-on feature
* **541-001** 12-24 V dc,Low Voltage Strobe with programmable constant-on feature
* **4115A** Strobe Assembly Mounting Kit
* **233-001** Security Screwdriver
* **12509-042** Telephone Management Application (TMA) software

10.16.0 Single-button Autodial with Call Pushbutton and Keypad, Flush-mount Talk-A-Phone Retrofit (6-hole) Emergency Telephone, Stainless Steel

10.16.1 Description

The Single-button Autodial with Call Pushbutton and Keypad, Flush-mount Talk-A-Phone Retrofit Emergency Telephone described in this section shall be designed for flush mounting on any flat surface, in a suitable stanchion, or in a suitable enclosure that allows surface mounting and shall be designed for indoor or outdoor use. It shall comply with Sections 1.0.0 (Scope and Intent), 5.0.0 (Installation), and 8.0.0 (Equipment Operation) of this specification. The Emergency Telephone shall be designed for single push button emergency activation with handsfree communications following initial telephone line connection. In addition to the single button activation, the emergency telephone shall include a Braille keypad and separate “call” pushbutton for local calling or building access. Pressing the call pushbutton a second time shall enable the caller to place additional calls without disengaging the telephone line. The Emergency Telephone shall be designed to mount in an existing Talk-A-Phone telephone, 6-hole panel cut-out.

The Single-button Autodial with Call Pushbutton and Keypad, Flush-mount Talk-A-Phone Retrofit Emergency Telephone shall include a stainless-steel front panel that attaches to painted, steel back box with security screws to prevent unplanned access to the telephone’s electronics.

10.16.2 Interconnection

Interconnecting wiring shall be limited to 600 Ohm telephone audio pairs, output control pairs (2), and power supply wiring for applicable options. All external cabling shall be entered through the enclosure per the manufacturer’s installation instructions. All wiring shall be terminated inside the telephone via screw terminals.

10.16.3 Performance Specification

This Single-button Autodial with Call push button and keypad, Flush-mount Talk-A-Phone Retrofit Emergency Telephone shall meet the following performance and physical specifications:

**Electrical/Audio**

Audio output 1 kHz tone @ 87 ± 3 dB SPL @ 1 meter with 40 mA loop current

Battery Voltage (tip and ring) 24 V dc or 48 V dc

Phone line requirements Loop start, central office (CO), or

 Analog station port (PBX, PABX, or KSU)

Minimum loop current 24 mA (35 mA recommended)

(2) Auxiliary outputs (Isolated solid-state switch) 48 V dc @ 125 mA

 28 VRMS ac @ 80 mARMS

Signaling DTMF 100 ms tone

Memory Non-volatile EEPROM

**Mechanical**

Operating temperature range

-003 and -004 Models −40º F to +140º F (−40º C to +60º C)

-001 and -002 Models −4º F to +140º F (−20º C to +60º C)

Relative humidity to 95%, no condensation

**Construction**

Panel ................................................................................ 14-gauge, type 304 brushed stainless steel

Dial Pad Chrome-plated zinc

Back box....................................................... 16-gauge cold-rolled steel with black polyurethane finish

**Dimensions**

Panel (with back box attached) ....................... 11.88 × 8.25 × 2.68 inches (301.6 × 209.6 × 68.1 mm)

Back box (depth from mounting surface)........................................................... 2.48 inches (63.0 mm)

Panel cutout ........................................................................ 9.85 x 6.75 inches (250.19 x 171.45 mm)

**Weight** 6.7 lbs. (3.0 kg)

**Approval Standards**

Safety of Information Technology Equipment UL/CSA 60950

Enclosures for Electrical Equipment UL 50, Type 3R

47 CFR Part 68

Certification Number US: ADGTE05BGTC2010

Ringer Equivalence Number .5B

Network connection (USOC) RJ11

IC Information (Canada)

IC Certification Number 882B-GTC 2010

Ringer Equivalence Number .5B

Connection Method CA11A

10.16.4 Peripheral Equipment and Accessories

The following peripheral equipment, options, and accessories shall be offered in support of the Single-button Autodial with Call push button and keypad, Flush-mount Talk-A-Phone Retrofit Emergency Telephone:

**Voice Annunciation Option,** as specified in section 8.0.0.

**Cold Weather Option,** as specified in section 8.0.0.

**L.E.D. Strobes,**  as referenced in section 11.1.0.

**Strobe Mounting Assembly** shall be offered for pole or wall mounting the L.E.D. Strobe.

**Security Screwdriver** shall be offered to permit installation, access, and removal of the Emergency and Assistance telephones.

**Telephone Management Application Software,**  as referenced in section 11.6.0.

10.16.5 Equipment Manufacturer and Model Numbers

This Single-button Autodial with Call push button and keypad, Flush-mount Talk-A-Phone Retrofit Emergency Telephone shall be GAI-Tronics RED ALERT® Model No. **398-001TP**. Options, peripherals, and accessories shall be GAI-Tronics models numbers, specified as:

* **398-002TP** RED ALERT® Single-button, Flush-mount Emergency Telephone with Voice Annunciation option
* **398-003TP** RED ALERT® Single-button, Flush-mount Emergency Telephone with Extreme Cold Temperature option
* **398-004TP** RED ALERT® Single-button, Flush-mount Emergency Telephone with Voice Annunciation option and Extreme Cold Temperature options
* **540-001** 120 V ac, L.E.D. Strobe Assembly with constant-on feature
* **541-001** 12-24 V dc,Low Voltage Strobe with programmable constant-on feature
* **4115A** Strobe Assembly Mounting Kit
* **233-001** Security Screwdriver
* **12509-042** Telephone Management Application (TMA) software

**11.0.0 Peripheral Equipment**

11.1.0 L.E.D Strobe (120 Vac or 12-24 Vdc)

11.1.1 Description

The 120 Vac L.E.D. Strobe shall provide a constant-on glow when power is applied. The input power shall be routed directly to the strobe and not through the controlling Emergency Telephone. When the strobe receives a dry contact closure from a connected Emergency Telephone, the constant-on glow shall flash at a rate of 240 times per minute. This flash shall remain active until the contact closure provided by the connected telephone is removed. Upon contact closure removal, the strobe shall return to its constant-on state.

The 12-24 Vdc L.E.D. Strobe shall be field-programmable to provide a constant-on glow when power is applied or to be off until activated. The input power shall be routed directly to the strobe and not through the controlling Emergency Telephone. When the strobe receives a dry contact closure from a connected Emergency Telephone, the strobe shall flash at a rate of 240 times per minute. This flash shall remain active until the contact closure provided by the connected telephone is removed. Upon contact closure removal, the strobe shall return to its constant-on state or turn off, depending on the programming.

Both L.E.D. Strobes shall provide a high visibility, even in daylight and shall have a minimum life expectancy of up to 100,000 hours. The outer lens of the strobes shall be blue in color, creating a uniform blue “glow” when energized. The strobes shall provide a secondary dry contact closure output, rated at 2 amperes, when in flash mode. This contact closure output shall be used to activate ancillary devices and shall disengage when the strobes return to their original state.

The L.E.D. Strobes shall be capable of being mounted onto a male, ¾” pipe thread. The strobes shall connect to the telephones via a pre-connected wire pair.

11.1.2 Features

The L.E.D. Strobe shall include the following features:

* High visibility, even in daylight
* 100,000-hour L.E.D. life
* Low power consumption
* “Outdoor Wet” weatherproof rating
* Low operating temperature
* Constant-on feature
* 240 Flashes per minute
* UL/cUL listing
* Dry contact closure output (rated at 2 amperes)

11.1.3 Specifications

The L.E.D. strobes shall meet the following performance specification:

**Electrical**

Nominal Current . . . . . . . . . . . . . . . . . . . . . . . …….. . . . . . . . . … . . . . . . 0.39 amperes at 120 V ac

 1.1 amperes at 12 V dc

 0.5 amperes at 24 V dc

Rated L.E.D. life . . . . . . . . . . . . . . . . . . . . . .. . …... . . . . . . . . . . . . . . . . . . . . . Up to 100,000 hours

Flashes per minute . . . .. . . . . . . . . .. . . . . . . . . . . . …… . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 240

Auxiliary contact maximum rating . . . . . . . . . .. . . …... . . . . . 2 amps @ 30 Vdc, 2 amps @ 240 Vac

Termination (ac, control, auxiliary contact) . . . . . . . . . . . ….. . . . . . . . . . . . . . 15-foot, 18 AWG wire

**Environmental**

Operating (environment) temperature range . . . . …... . .. . . . . -40° C to +66° C (-40° F to + 150° F)

Environmental……………………………………………….…..…UL listed for “Outdoor Wet” Locations

**Mechanical**

Base. . . . . . . . . . . . . ……. . . . . . . . … . Die-cast aluminum (light gray or black baked enamel finish)

Dome . . . . . . . . . . . . . . . . . .. . …… . . . .. . . . . . . . . . . . . . . . . . . . . . . . . . . . . Polycarbonate (blue)

Dimensions . . . . . . . . . . …… . .. . . . . . . . . . . . . . . . 7.75 H x 8.25 W inches (196.85 x 209.55 mm)

Shipping weight . . . .. . . . . . . .. . . . . . . . . . . . . . . . . ….. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 6.5lbs

Mounting . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . ….. . . . . . . . . . . . . . . . . . . . . 3/4-14NPT female

**Approvals**. . . . . . . . . . . . . . . . . . . . . . . .. . . . . .. . . . . . . . . . . . . .UL 1638A / CSA C22.2 No. 205-17

11.1.4 Interconnection

The L.E.D. Strobe shall include a minimum 12-foot wiring harness for the following connections:

* Control pair (dry contact closure from connected Emergency Telephone)
* Output pair (dry contact closure to ancillary device)
* 120 V ac power input

All wire leads shall be stripped and tinned and suitable for wire nut or screw terminal installation.

11.1.5 Accessories

The following peripheral equipment shall be offered in support of the L.E.D. Strobe.

**Mounting Kit** shall provide the ability to mount the strobe on a wall or flat surface.

11.1.6 Equipment Manufacturer and Model Numbers

The L.E.D. Strobe shall be GAI-Tronics Model **540-001 (120 Vac)** or **541-001 (12-24 Vdc)**. The Strobe Mounting Kit shall be GAI-Tronics Model **4115A**.

11.2.0 Free-Standing Tower

11.2.1 Description

The Free-standing Tower shall be designed to house the following components:

* Flush-mount Emergency or Access Telephone; analog, VoIP, or WiFi
* Blue-light Strobe with constant-on feature (120 V ac or 24 V dc)
* Telephone panel light to provide lighting over the face of the installed telephone (AC or DC)

The Free-standing Tower body shall measure shall be constructed of 3/16” cold-rolled steel, and painted with powder coat epoxy, Architectural Bronze in color. The body shall include openings for installing the flush-mount telephone, panel light, and rear access for installation purposes. A gasketed access panel measuring 7” W x 18” H shall be included with the stanchion body. The body shall include provisions to install a strobe assembly, via a ¾” male NPT coupling, and a telephone panel light. A mounting plate to provide conduit entrance and clearance holes for attaching to secure anchor bolts shall be incorporated into the design and construction of the tower body.

The Free-standing Tower shall include the following assemblies:

* Tower body
* Protective lens assembly affixed to the top of the unit (shall include an integral WiFi antenna for WiFi models)
* Mounting kit to include necessary bolt anchors and installation instructions
* L.E.D. Panel light assembly to provide illumination over the installed telephone (AC and DC version shall be offered).

The referenced blue-light strobe, mounting kit, and flush-mount telephone shall be purchased separately.

11.2.2 Interconnection

Interconnecting wiring shall be limited to standard telephone or cat 5/6e twisted telephone pairs, appropriately gauged power triplet for 120 V ac or 12-24 V dc connections, and coaxial cable (WiFi models). All external cabling shall be entered through the bottom of the tower body, insuring proper separation of audio and power conductors. All wiring shall connect to its designated components via screw-down terminal strips, wire nuts/crimps, or appropriate adapters/connectors.

11.2.3 Features

The Free-standing Tower shall include the following features:

* UL/cUL listed for outdoor installations
* ADA Compliant
* Powder-coated epoxy finish
* Rugged construction for longevity and durability
* Suitable for AC or DC power applications
* 140 MPH wind speed rating (when installed in compliance with manufacturer’s published instructions)

11.2.4 Performance Specifications

This Free-standing tower shall meet the following performance and physical specifications:

Dimensions..................................................................... 10 W x 10 D x 114 H inches (0.25 x 0.25 x 2.89 m)

Construction ...........................................................................................................3/16-inch cold-rolled steel

Finish/Color .............................................................................. Powder-coated epoxy / Architectural bronze

Power Rating

Strobe Nominal Current . . . . . . . . . . . . . . . . . . . . . . . …….. . . . . . . . . … . . . . . . 0.39 amperes at 120 V ac

 1.1 amperes at 12 V dc

 0.5 amperes at 24 V dc

L.E.D. Panel light..................................................................................................AC @ 25 mA, 120-230 V ac

 DC @ 40 mA, 10-33 V dc

Terminations

Strobe (AC/DC power, control, auxiliary contact) .................................................. 15-foot, No. 18 AWG wire

 (stripped, tinned leads)

L.E.D. Panel light..............................................................................................................Screw lug terminals

Shipping weight ....................................................................................................................Approx. 225 lbs.

Wind speed rating…………………………………………………………………………………………..140 MPH

 AASHTO LTS6 Risk Category II;

 International Building Code

Approvals: ………………………………………………………UL/ cUL listed OUTDOOR telephone stanchion:

 Canadian Electrical Code, Part 1 (CE Code, Part 1), and the

 ANSI/NFPA 70 National Electrical Code (NEC)

11.2.5 Peripheral Equipment and Accessories

The following peripheral equipment shall be offered in support of the Free-stanchion Stanchion:

**L.E.D. Strobe, 120 V ac,** as referenced in section 11.1.0

**L.E.D Strobe, 12-24 V dc**, as referenced in section 11.1.0

11.2.6 Equipment Manufacturer and Model Numbers

The Free-standing Tower shall be GAI-Tronics Model **234**. Options, peripherals, and accessories shall be GAI-Tronics models numbers, specified as:

* **540-001** 120 V ac, L.E.D. Strobe Assembly with constant-on feature
* **541-001** 12-24 V dc,Low Voltage Strobe with programmable constant-on feature

11.3.0 Elite Wall-mount Communication Station

11.3.1 Description

The Wall-mount Communication Station shall be designed to house the following components:

* Flush-mount Emergency or Access Telephone
* Blue-light Strobe with constant-on feature
* Telephone panel light to provide lighting over the face of the installed telephone

The Elite Wall-mount Communication Station shall be constructed of 1/8-inch aluminum and painted with safety yellow polyurethane enamel. The body shall accommodate the installation of a flush-mount, emergency telephone and telephone panel light (if required) and shall include provisions to install a strobe assembly via a ¾” male NPT coupling. Safety glass shall be included to protect the installed strobe.

The Elite Wall-mount Communication Station shall include a mounting plate that can be separated from the body for ease of installation. The station shall be designed for surface mounting on any flat surface. A 120 V ac L.E.D. telephone panel light shall be included with the station.

The Elite Wall-mount Communication Station shall include the following assemblies:

* Station housing and mounting plate
* Safety glass
* L.E.D. Panel light assembly to provide illumination over the installed telephone.

The referenced blue-light strobe and flush-mount telephone shall be purchased separately.

11.3.2 Features

The Elite Wall-mount Communication Station shall include the following features:

* UL/cUL listed for outdoor installations
* Powder-coated epoxy finish
* Rugged construction for longevity and durability
* Suitable for AC or DC power applications

11.3.3 Interconnection

Interconnecting wiring shall be limited to standard telephone or cat 5/6e twisted telephone pairs and appropriately gauged power triplet for 120 V ac or 24 V dc connections. All external cabling shall be entered through the stanchion mounting plate, insuring proper separation of audio and power conductors. All wiring shall connect to its designated components via screw-down terminal strips or wire nuts/crimps.

11.3.4 Specifications

The Elite Wall-mount Communication Station shall meet the following performance and physical specifications:

Dimensions.......................................................... 40.5H x 10.0 W x 9.5D inches (1028.7 x 254 x 241.3 mm)

Construction .......................................................................................................................1/8-inch aluminum

Finish/Color .......................................................................................... Polyurethane Enamel, Safety Yellow

Power Rating

Strobe Nominal Current . . . . . . . . . . . . . . . . . . . . . . . …….. . . . . . . . . … . . . . . . 0.39 amperes at 120 V ac

 1.1 amperes at 12 V dc

 0.5 amperes at 24 V dc

L.E.D. Panel light..................................................................................................AC @ 25 mA, 120-230 V ac

 DC @ 40 mA, 12-24 V dc

Terminations

Strobe (AC/DC power, control, auxiliary contact) ...............................................................No. 18 AWG wire

 (stripped, tinned leads)

L.E.D. Panel light..............................................................................................................Screw lug terminals

Shipping weight ......................................................................................................................Approx. 40 lbs.

Approvals:…………………………………………………….. UL/ cUL listed OUTDOOR telephone stanchion:

 Canadian Electrical Code, Part 1 (CE Code, Part 1), and the

 ANSI/NFPA 70 National Electrical Code (NEC)

11.3.5 Peripheral Equipment and Accessories

The following peripheral equipment shall be offered in support of the Elite Wall-mount Communication Station:

**L.E.D. Strobe, 120 V ac,** as referenced in section 11.1.0

**L.E.D Strobe, 12-24 V dc**, as referenced in section 11.1.0

11.3.6 Equipment Manufacturer and Model Numbers

The Elite Wall-mount Communication Station shall be GAI-Tronics Model **234WM-202**. Options, peripherals, and accessories shall be GAI-Tronics models numbers, specified as:

* **540-001** 120 V ac, L.E.D. Strobe Assembly with constant-on feature
* **541-001** 12-24 V dc,Low Voltage Strobe with programmable constant-on feature

11.4.0 Economy Wall-mount Communication Station

11.4.1 Description

The Economy Wall-mount Communication Station shall be designed to mount the following components:

* Flush-mount Emergency or Access Telephone
* Blue-light Strobe with constant-on feature
* Telephone panel light to provide lighting over the face of the installed telephone

The Economy Wall-mount Communication Station shall be constructed of 1/8-inch aluminum, painted with a safety yellow or silver powder coat epoxy. The body shall accommodate the installation of a flush-mount, emergency telephone and telephone panel light (if required) and shall include provisions to install a strobe assembly via a ¾” male NPT coupling.

The Economy Wall-mount Communication Station shall include a mounting plate that can be separated from the body for ease of installation. The station shall be designed for surface mounting on any flat surface and shall be rated for outdoor use.

The Economy Wall-mount Communication Station shall include the following integral assemblies:

* Station housing and mounting plate
* L.E.D. Panel light assembly to provide illumination over the installed telephone (120 Vac and 12-24 Vdc versions shall be offered), if required
* L.E.D. Blue strobe mounted to the top of the station (120 Vac and 12-24 Vdc versions shall be offered)

The referenced flush-mount telephone shall be purchased separately.

11.4.2 Features

The Economy Wall-mount Communication Station shall include the following features:

* UL/cUL listed for outdoor installations
* Powder-coated epoxy finish
* Rugged construction for longevity and durability
* Suitable for AC or DC power applications

11.4.3 Interconnection

Interconnecting wiring shall be limited to standard telephone or cat 5/6e twisted telephone pairs and appropriately gauged power triplet for 120 V ac or 12-24 V dc connections. All external cabling shall be entered through the stanchion mounting plate, insuring proper separation of audio and power conductors. All wiring shall connect to its designated components via screw-down terminal strips or wire nuts/crimps.

11.4.4 Specifications

The Economy Wall-mount Communication Station shall meet the following performance and physical specifications:

**Mechanical**

Dimensions............................................... 40.25 H x 10.31 W x 6.81 D inches (1022.4 x 261.9 x 170.3 mm)

Construction .......................................................................................................................1/8-inch aluminum

Finish/Color ....................................................................... Powder-coat epoxy, yellow (-001) or silver (-002)

Weight ....................................................................................................................................Approx. 30 lbs.

**Electrical**

Strobe Nominal Current . . . . . . . . . . . . . . . . . . . . . . . …….. . . . . . . . . … . . . . . . 0.39 amperes at 120 V ac

 1.1 amperes at 12 V dc

 0.5 amperes at 24 V dc

L.E.D. Panel light.........................................................................................................AC @ 25 mA, 120 V ac

 DC @ 40 mA, 12-24 V dc

**Terminations**

Strobe (AC/DC power, control, auxiliary contact) .................................................. 15-foot, No. 18 AWG wire

 (stripped, tinned leads)

L.E.D. Panel light..............................................................................................................Screw lug terminals

**Approvals**

Standards for Luminaires……………………………………………..……..UL 1598 and CSA C22.2 No. 250.0

**Environmental**

Weather Rating……………………………………………………Indoor/Outdoor – Suitable for Wet Locations

11.4.5 Peripheral Equipment and Accessories

The following peripheral equipment shall be offered in support of the Elite Wall-mount Communication Station:

**Pole Mounting Kit** shall be designed to allow mounting of the Economy Wall-mount Communication Stations to a pole with a maximum diameter of 4-inches.

11.4.6 Equipment Manufacturer and Model Numbers

The Economy Wall-mount Communication Station shall be GAI-Tronics Models **240WM** or **241WM** series, specified as:

* **240WM-001** Wall-mount Station, yellow, with L.E.D. strobe and panel light; 120 Vac
* **240WM-002** Wall-mount Station, silver, with L.E.D. strobe and panel light; 120 Vac
* **240WM-001DC** Wall-mount Station, yellow, with L.E.D. strobe and panel light; 12-24 Vdc
* **240WM-002DC** Wall-mount Station, silver, with L.E.D. strobe and panel light; 12-24 Vdc
* **241WM-001** Wall-mount Station, yellow, with L.E.D. strobe; 120 Vac
* **241WM-002** Wall-mount Station, silver, with L.E.D. strobe; 120 Vac
* **241WM-001DC** Wall-mount Station, yellow, with L.E.D. strobe; 12-24 Vdc
* **241WM-002DC** Wall-mount Station, silver, with L.E.D. strobe; 12-24 Vdc

Peripherals and accessories shall be GAI-Tronics model numbers, specified as:

* **231-003** Pole Mounting Kit

11.5.0 Surface-mount Enclosures

11.5.1 Description

Surface-mount Enclosures shall be offered to provide surface mounting of flush-mount emergency and access telephones. Enclosures shall be offered in a painted, hooded design and a non-hooded, brushed stainless steel design. When installed in either Surface-mount Enclosure design, the emergency and access telephones shall meet Type-3R weatherproof standards.

11.5.2 Interconnection

Interconnecting wiring shall be limited to standard telephone or cat 5/6e twisted telephone pairs. All external cabling shall be entered through the rear of the Surface-mount enclosure. All wiring shall connect to the telephone via screw-down terminal strips or RJ11 modular connector (4-conductor).

11.5.3 Specifications

This Surface-mount Enclosures shall meet the following physical specifications:

Hooded Design

Dimensions......................................................... 12.3 H x 10.31 W x 6.37 D inches (312 x 262 x 162 mm)

Construction .................................................................................................................0.063-inch aluminum

Finish/Color ............................................................................... Polyurethane paint (Red, Yellow, or Black)

Mounting .....................................Four 5/16-inch (0.312 mm) diameter mounting holes in mounting bosses

Cable Entry ...........................................................................................Customer-provided (rear or bottom)

Shipping weight ....................................................................................................................... 3.5 lbs. max.

Labeling ............................................................................................Handset symbol on left and right sides

Non-hooded Design

Dimensions.......................................................... 12.13 H x 10.18 W x 2.65 D inches (308 x 259 x 67 mm)

Construction .................................................................................Type 304 stainless steel, 0.063 thickness

Finish/Color ............................................................................................................ Brushed and passivated

Mounting .....................................Four 5/16-inch (0.312 mm) diameter mounting holes in mounting bosses

Cable Entry .................................................................................................1-inch entry in rear of enclosure

Shipping weight ....................................................................................................................... 5.0 lbs. max.

Labeling.................................................................................................................................................None

11.5.4 Equipment Manufacturer and Model Numbers

The Surface-mount Enclosures shall be GAI-Tronics models:

* **236-001RD** Hooded surface-mount enclosure, red
* **236-001YL** Hooded surface-mount enclosure, yellow
* **236-001BK** Hooded surface-mount enclosure, black
* **238-001** Surface-mount Enclosure, brushed stainless steel

11.6.0 Analog Telephone Management Application (TMA) Package

11.6.1 Description

The Telephone Management Application (TMA) package shall be designed as a maintenance data collection and reporting tool to allow users to view and report the health of the Emergency Telephones in the system. TMA shall be a Windows 10® based software application and shall be intended for use on a dedicated PC. TMA shall be designed to monitor individual Emergency Telephones in the system, each on a dedicated analog line or on a common Ethernet network.

The TMA shall be designed to poll each Emergency Telephone in the system to determine health status and activity. The TMA shall route all analog telephone polling activity through a transceiver designed and manufactured by the TMA software designer. Each transceiver shall poll one telephone at a time, but TMA shall be capable of supporting eight analog (8) line inputs, allowing eight different telephones to be polled simultaneously. A TMA transceiver shall be required for each connected line.

When polled, each Emergency Telephone shall report the following to the TMA:

* Line integrity
* Microprocessor health
* Stuck buttons
* Microphone/speaker circuit integrity
* Line interrupt (power failure)
* Voice annunciation battery health (when applicable)

The TMA shall be flexible in its provisions for adding, changing, and deleting telephones within the system. It shall provide a variety of reports minimally in the form of call activity, exception reports (faults), and complete status reports. TMA shall provide an auto-discovery feature to detect and record new Emergency Telephones added to the system. It shall also allow manual entry of newly added Emergency Telephones. All TMA entries shall be done only by authorized personnel, controlled by a system security key.

Each Analog Telephone shall take approximately 90 seconds to poll and gather data. In lieu of polling, analog Emergency Telephones shall be capable of being programmed to “call in” to the TMA. This method shall be expected to require multiple system dial-in numbers if more than one Emergency Telephone is required to call-in at a time.

11.6.2 Interconnection

The analog TMA transceiver shall connect to the host PC via USB connector and to the telephone line via 4-pin modular connector (RJ11).

11.6.3 Material Provided

The TMA package shall include the following material:

* (1) Transceiver Unit
* Software CD-ROM
* Security Key
* Telephone Cable (4-conductor) for connection to PBX line
* USB Cable for connecting host PC to Transceiver Unit

11.6.4 System Requirements

The customer-provided, TMA host PC shall meet the following, minimum operating requirements:

* Intel® Pentium™ or AMD® 32-bit or 64-bit Processor
* Windows®  10 operating system
* RAM, hard disk space, and processor speed is dependent on the operating system's

recommended requirements

* CD-ROM Drive
* One USB port for the security key
* One USB port per TMA DTMF Transceiver
* One printer port

11.6.5 Peripheral Equipment and Accessories

The following peripheral equipment, options, and accessories shall be offered in support of the Telephone Management Application and the Emergency Telephone system.

**TMA Expansion Kit** shall provide a transceiver and interconnecting cables for connection to the telephone system and host PC for the purpose of providing the capability to poll via an additional line.

11.6.6 Equipment Manufacturer and Model Numbers

The Telephone/VoIP Management Application package shall be GAI-Tronics Model **12509-042**. The TMA Expansion Kit shall be GAI-Tronics Model **12509-043.**