



Preferred Distributor of GAI-Tronics  
In South Africa Since 2010



# Who Is GAI-Tronics?

GAI-Tronics®, owned by Hubbell Incorporated, is the world's largest company focused on the communication needs of the world's industrial markets. Founded in 1946, GAI-Tronics' earliest products set the industry standard for durability and reliability. While maintaining their commitment to the principles of quality and customer service, today's GAI-Tronics® aggressively applies leading edge technology to solve the world's most challenging communication needs, and is backed by stability, reputation, and financial strength of Hubbell Incorporated, a worldwide leader in electrical and electronic products.



# Benefits of VoIP

- Voice over Internet Protocol (VoIP) telephones provide simple network connection without the need for telephone adaptors and extends VoIP access into the most arduous of environments.
- With only one voice and data infrastructure to install and maintain, time, money and call costs are reduced, VoIP can also be implemented over existing data infrastructure without the need for any new installations or cabling.
- GAI-Tronics VoIP telephones offer direct connection to LAN or WAN via RJ45 connector, including Power-Over-Ethernet (PoE) as a standard.
- GAI-Tronics VoIP phones offer a wealth of additional features including real-time reporting via Syslog, and can be configured by web browser, configuration file or command line interface (CLI). Intuitive web pages held within the telephone can be accessed over the network using a browser such as Internet Explorer™ to view monitor and change settings within the telephone.

# General Features of GAI-Tronics VoIP Phones

- SIP compatible (RFC3261)
- Automatic outgoing call diversion (memory list)
- Weather and vandal resistant
- Wide operating temperature range
- Real-time alarm reporting via email or Syslog
- Power over Ethernet compatible
- Configurable via web page, serial link or download
- 4 auxiliary inputs, 2 volt-free contact outputs
- Weather resistant to IP65 (With correct installation)
- Operating Temperature Range of -20°C to 60°C



## Designed for Resilience and Reliability

By using distributed resources, the GAI-Tronics approach reduces the possibility of a single point of failure jeopardising the operation of the whole system. For example, if the proxy server should fail, the Help Point could still send an alarm by email.

In addition, the Help Point can hold multiple addresses for each of the key servers (proxy, registrar, DNS, syslog & email). This means that if the Help Point fails to contact the first server it will attempt to repeat the action with the second. In most cases two alternative addresses are possible, but with the SIP proxy and registrar up to 4 alternate servers can be specified with a prioritised failover sequence between them.

The Help Point can be set to automatically refresh its registration at a predetermined interval to ensure that registration is maintained at all times (or if not raise an alarm).



## Emergency Call Features

As well as just having its own dial plan, any call button designated "Emergency" can have some special attributes:

- **Override** - pressing an emergency button will terminate any existing non-emergency call and start an emergency call.
- **Inhibit other buttons** - when an emergency call is in progress, any other buttons that could start a call, clear a call or dial a digit can be inhibited.
- **Activate relay and / or LED** - any LED or relay can be set to activate during an emergency call, for example to activate a beacon.

## PA/Intercom Modes

In addition to the standard Help Point operating mode, where a user presses a button to connect to the required end point, 3 special intercom / PA style modes are available. In these modes the "call" is initiated from the remote end and the Help Point answers automatically, allowing functions as described below:

- **Stealth** auto-answer mode, where the telephone provides no indication of the incoming call and immediately auto answers the call. The speaker is muted, and the microphone gain is enhanced. This mode allows discrete listening.
- **Intercom** auto-answer mode, where the telephone auto answers and provides normal duplex audio, preceded by an announcement tone.
- **Page** mode, where the unit auto answers and disables the microphone. The output level of the speaker is increased to its maximum level. This mode can be used to provide a public address function. If required, an internal relay can be used to activate a PA amplifier during page mode.



# GAI-Tronics Example Specifications

## TITAN Series

### TECHNICAL SPECIFICATIONS

**Casing Material**

Die cast aluminium, epoxy powder coated. Colours yellow or grey or special order

**Handset Material**

Cycoloy (2850) with stainless steel spiral cord

**Keypad**

Weathersealed tactile digital keypad. Silicone rubber material, resistant to most chemicals and solvents

**Temperature**

Operating: -20° C to +60° C

Storing: -40° C to +70° C

**Weather Resistance**

Door open - up to IP65

Door closed - IP66

**Ringing Tone**

Shrill warble tone 80 dBA @ 1 metre typical

**Hookswitch**

Electronic / magnetic with no visible moving parts

**Lightning / Transients**

Protection to ITU-T k.21 enhanced levels

**M.T.B.F.**

Calculated to have an M.T.B.F. in excess of 50,000 hours using MIL-HDBK-217F Notice 2

**Weight**

Up to 5 kg depending on option



### STANDARD ANALOGUE

**Dialling**

LD (pulse) or MF (tone). User selectable

**Time Out**

Enforces a fixed call maximum time limit to 6-8 minutes from lifting the handset. User selectable

**Power supply**

Drawn from telephone line

**Programming**

Autodial numbers are pre-programmed via an integral keypad

### SMART (ANALOGUE)

All the features of the standard analogue unit plus:

**Remote programming**

Auto-dial numbers, time-out and dial mode can be programmed over the phone line either from a tone phone or from monitoring software (TMA)

**Configuration**

Remotely programmable via TMA

**Remote monitoring**

Remote health-check and fault reporting, including handset integrity, either on a call-in or polled basis. TMA required.

**Call Logging**

Records call time, duration and auto-dial number used. TMA required.



# GAI-Tronics Example Specifications

## TITAN Series (Cont.)

### VOICE OVER IP - SIP

#### Connection type

RJ45 socket (inside sealed enclosure)

#### Power supply

External 48Vdc or Power-Over-Ethernet (PoE 802.3af compliant)

#### Call set-up Protocol

Session Initiation Protocol (SIP) (RFC 3261) only

#### Configuration

Via configuration file or web page. Static IP address provisioning or DHCP

#### External I/O

4 auxilliary inputs, 2 isolated relay outputs (1 capable of switching 230Vac)

#### Monitoring and reporting

Real-time over TCP/IP proprietary Syslog application

### APPROVALS



This mark indicates compliance with the:  
Radio & Telecommunications Terminal Equipment Directive  
1999/5/EC (R&TTE)



This mark indicates compliance for inductively coupling to  
Hearing Aids having a 'T' switch position  
Tested to ETS 300-381 and in accordance with ITU-T P37.

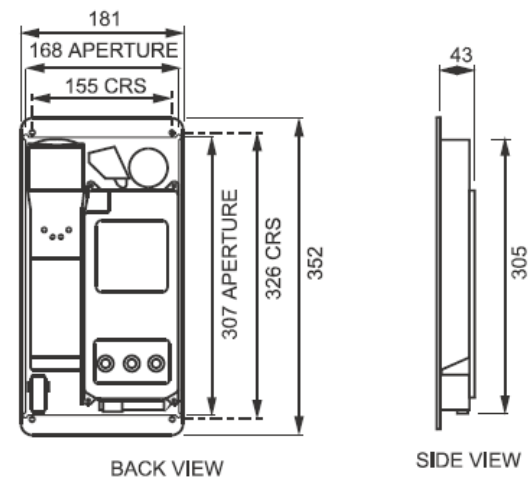
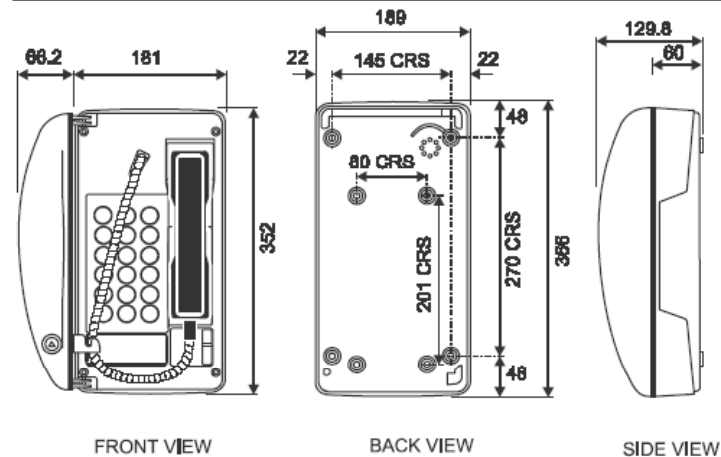
For specific country approval, please call



GAI-Tronics is a CISCO Technology Developer Partner

Cisco IVT Tested

### DIMENSIONS:



# GAI-Tronics Standards Compliance

## STANDARDS COMPLIANCE

EMC	<p>EN55022:1998 + A1:2000, A2:2003 – Information technology equipment. Radio disturbance characteristics.</p> <p>EN55024:1998 + A1:2000, A2, 2003 – Information technology equipment. Immunity characteristics.</p> <p>EN 50121-4: 2000 - Railway applications, emission and immunity</p>
Safety	<p>EN60950-1:2001 + A11:2004 – Specification for information technology equipment, including electrical business equipment.</p> <p>BS6317:1992 (Clause 13.9) - Specification for simple telephones for connection to public switched telephone networks run by certain public telecommunication operators.</p> <p>EN50371:2002 - Generic standard to demonstrate the compliance of low power electronic and electrical apparatus with the basic restrictions related to human exposure to electromagnetic fields (10 MHz - 300 GHz). General public.</p>
European Directives	<p>73/23/EEC - Low Voltage Directive.</p> <p>89/336/EEC - EMC directive</p> <p>1999/5/EC – Radio Equipment &amp; Telecommunications Terminal Equipment (R&amp;TTE) Directive</p> <p>2002/96/EC - Waste Electrical and Electronic Equipment (WEEE) Directive</p> <p>2002/95/EC - Restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)</p> <div style="text-align: right; font-size: 2em; font-weight: bold;">CE</div>