

# SMART Rugged Telephones - Keypad

Models 226-005, 246-005, 256-005 & 276-005



## Features

- Telephone Line Powered; No External Power Needed
- Braille Metallic Keypad
- Noise-canceling Microphone
- Hearing Aid Compatible Handset
- Volume Control Push Button (Front Panel)
- Non-movable Hookswitch
- Remote Programming
- Phone's Health Status Reported to Central P.C.
- Programmable Polling or Call-in Scheduling
- Dual Output Control
- Email Notification of Unit Faults or Reports



256-005 Outdoor Telephone



246-005 Indoor Telephone



276-005 Flush Panel Telephone



226-005 Tough Phone

GAI-Tronics' SMART indoor and outdoor Rugged Telephones are designed for those applications where standard telephones are not environmentally suitable. Reliable, dependable communications is a vital and growing concern in all public areas including, subways, airports, industrial facilities, plant entrances, amusement parks, college campuses, parking garages and more. GAI-Tronics' SMART Rugged Telephones address this need and are built to endure extreme temperature ranges, vandalism, and abuse.

GAI-Tronics' SMART telephones are fully line powered, requiring no external power and no battery backup. All memory programming is stored in a non-volatile EEPROM for increased reliability.

The SMART telephones are programmed remotely, enabling the end-user to configure the system to meet their unique application requirements.

GAI-Tronics' Self-Monitoring and Reporting Technology (SMART) telephones detect and report numerous conditions. Interfacing to a central computer equipped with GAI-Tronics' Telephone Management Application (TMA) monitoring software, the telephones perform advanced self-testing to ensure the health and functionality of each SMART telephone within the telephone network. Through self-testing, the units detect and report faults so repairs can be made quickly; in addition, via the TMA software, telephones are polled on a regular basis for call reporting and other statistical information.

The TMA software is a Windows XP and Windows 7-based data collection and reporting package. The system supports up to eight

lines simultaneously contacting, and collecting health information from each SMART telephone.

TMA reduces the cost of maintenance while increasing the safety of the system by ensuring that phones are fully functional. TMA allows the system manager to make remote programming changes to individual telephones, saving time and money. These changes can be made without interfering with telephone communications and without disrupting the polling schedule. With a wide range of customer configured report options, including on-line and automated reporting, the system is configurable to meet any customer requirements.

The SMART Telephone will store and report to TMA the following type of information:

- **Call Type** (voice or maintenance)
- **Call Direction** (incoming or out-going)
- **Call Date, Call Time and Call Duration**
- **Answer Delay** (voice calls only)
- **Termination Reason** (what ended the call): This information is stored for every call attempt (whether the call is actually successful or not).
- **Stuck Contacts:** A mechanical malfunction of the Help push-button, call button and keypad switch.
- **Phone Line Interruption:** A loss of phone line connection. The event will be reported to TMA computer during the scheduled maintenance call after the line connection is restored.
- **Microprocessor Self-Test:** The phone detects and reports corruption in its operational memory during the diagnostic self-testing.

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## TECHNICAL SPECIFICATIONS

TMA Compatibility profile type	GTC SMART Handset
Auto-dial digit limit	24 digits
Braille pad	Chrome plated zinc

### Electrical

Minimum loop current (48 V dc only)	24 MA
Operation	Loop Start
Volume Control	4 step (-6 dB, 0 dB, 6 dB, 12 dB)
Dual Isolated solid state control outputs	480 V dc @ 125 mA 280 V <sub>RMS</sub> @ 80 mA <sub>RMS</sub>

### Mechanical

Operating temperature range	-20°C to +60°C
Relative humidity	to 95%, no condensation

### Model 226-005

Construction	Thick-walled cast aluminum with protective gray coating
Handset/cord	G-style with 19-inch lanyard armored cord
Dimensions	13.50 H x 9.70 W x 6.15 D inches
Weight	14.5 lbs.

### Model 246-005

Construction	Non-metallic
Handset/cord	6-foot Hytrel™ cord with noise-canceling mic
Dimensions	9.50 H x 8.00 W x 6.90 D inches
Weight	4.8 lbs.

### Model 256-005

Construction	Non-metallic
Handset/cord	6-foot Hytrel® cord with noise-canceling mic
Dimensions	13.20 H x 9.40 W x 7.40 D inches
Weight	10.0 lbs.

### Model 276-005

Construction:	
Front Panel	14-gauge brushed stainless steel
Back Box	16-gauge cold-rolled steel with black polyurethane finish
Handset/cord	G-style with 29-inch lanyard armored cord
Dimensions:	
Front Panel	12.00 H x 10.00 W inches
Back Box	10.06 H x 8.43 W x 2.44 D in.
Back Box (depth mounting surface)	2.38 inches
Panel Cutout	10.06 H x 8.43 W inches
Weight	7.0 lbs.

### Approvals

Safety of Information Technology Equipment	UL/CSA 60950
Enclosures for Electrical Equipment	UL 50, Type 3R Model 246-003 only; UL 50

### 47 CFR Part 68

Certification Number	US: ADGTE04B0414HAC
Ringer Equivalence Number	.4B
Connection Method	RJ11

### IC Information (Canada)

IC Certification Number	882B-GTC SMART
Ringer Equivalence Number	.4B
Connection Method	CA11A

### Telephone Management Application (TMA) (Sold Separately)

**Model # 12509-042 TMA Package**  
**Model # 12509-043 TMA Expansion Kit**

Note: Each Model 12509-042 and 12509-043 includes one (1) line transceiver. One transceiver is required for each polling telephone line. The TMA system will support up to eight (8) polling lines.



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Quality Management System Certified by DNV-GL - ISO 9001:2008. The policy of GAI-Tronics is one of continuous improvement; therefore the company reserves the right to change specifications without notice.



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