

Architect and Engineering Specification

Model 256-003 S.M.A.R.T. Outdoor Industrial Telephone

Phone shall operate on a standard analog phone line. It shall be powered solely from the phone line and not require a battery or external power source. A call is initiated by lifting the handset and using the keypad to dial. A receiver volume control shall be provided on the front panel. The phone shall be tone dialing.

The phone shall be capable of being monitored by a remote computer equipped GAI-Tronics Telephone Management Application running on Microsoft Windows 2000 or Windows XP, Professional or Home edition. To establish a monitoring connection, the phone shall call the computer at a preset time or the computer shall call the phone. The computer shall use the Telephone Management Application (TMA) software package to monitor and configure the phone. The phone shall be capable of reporting the following information to the TMA Computer:

- **Call Log** – A record of the phone activity since the last call report. The type of call, date, start time, number dialed and duration of each call shall be reported.
- **Stuck Contact** – A mechanical malfunction of a keypad switch being stuck in the closed (pressed) position.
- **Handset Cord Integrity** – An open circuit on the handset cord.
- **Phone Line- Interrupt** – A loss of phone line connection. This event shall be reported to the TMA computer during the scheduled maintenance call after the line connection is restored.
- **Micro Processor Self Test** – Phone detects corruption in its operational memory during the diagnostic self testing.

Any user-initiated call shall override an in-process maintenance call to the TMA computer. The maintenance call shall be terminated and the phone shall process the user call. The phone shall contain a microprocessor and non-volatile memory for storage of its parameters. The phone shall be remotely programmed from the TMA computer. The following phone operating parameters shall be programmable:

- **Call time-out** - to limit the time a call can be in-progress. (1-166 minutes or forever)
- **Mute Before Dial** - disables the microphone until the call is connected (ON or OFF)
- **Receive levels** - (Receiver gain).
- **Maintenance Call-in** – The time of day the phone will automatically call the monitoring computer.
- **Solid state switch** – Remote activation of peripheral devices

The phone housing shall be constructed of high-impact, anti-corrosive polyester housing resistant to thermal degradation and immune to chemicals, solvents and salts and rated to NEMA 3R. The housing shall have a door with heavy-duty latch. A panel (containing the handset and keypad) shall be removable from the rear section of the housing to access the phone electronics and telephone line connection. The housing shall be 13.2"x9.4"x7.4 (HxWxD) and be gray in color. The phone shall weigh 8.2 pounds.

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The handset shall be “G” style with a hearing aid compatible receiver, noise canceling microphone and 6’ retractable cord. The cord shall be constructed of Hytrel® for added durability. The handset cradle shall be heavy-duty, with a non-movable, magnetic type hook-switch. The keypad shall be Braille encoded, chrome plated and completely sealed. The phone shall contain a ringer with REN of 1.5 or less. The phone shall be supplied with a 7’ modular cable (RJ11C type) for connection to the incoming phone line.

The phone shall have an operating temperature range of -40°C to $+60^{\circ}\text{C}$ and relative humidity to 95% non-condensing.

The telephone and software shall be designed and developed by the manufacturer.

Telephone manufacturer shall be ISO 9001 Certified.

Phone shall be registered under FCC regulations, 47 CFR, part 68 and comply with UL/CSA 60950.

Telephone shall be manufactured by **GAI-Tronics Corporation as Model 256-003.**