

Architect and Engineering Specification

Model 257-003 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. The phone shall be capable of either auto-dial or ring-down operation. A call is initiated by lifting the handset. 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 and configured by the GAI-Tronics Telephone Management Application (TMA) running on a remote computer. The computer shall connect to the phone through the telephone network using a voice grade phone line modem. To establish connection, the phone shall call the computer at a preset time or the computer shall call the phone. The phone shall be capable of reporting the following information to the TMA Computer;

- **Call Log** – A report of the phone activity since the last call log report. The type of call, date, start time, number dialed and duration of each call shall be reported.
- **Handset Cord Integrity** – An open circuit on the handset cord.
- **Phone Line Interrupt** – A loss of phone line power causing the phone to be inoperable. The event shall be reported to the TMA computer during its scheduled maintenance call when the line power is restored.
- **Microprocessor Self Test** – Phone detects corruption in its operating 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:

- **Auto-Dial Number** is the number dialed when handset is lifted (up to 24 digits)
- **Call time-out** to limit the time a call can be in-progress. (1-166 minutes or forever)
- **Three number rollover** – Continuous until call is answered.
- **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 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) shall be removable from the rear section of the housing to access the phone electronics. . 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 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.

The phone shall be manufactured by **GAI-Tronics Corporation as Model 257-003.**