

# GUARD-IT®

SINCE 1948  
**RACO**®  
REMOTE ALARMS AND CONTROLS

## ... a new low-cost autodialer with flexible features for dependable Alarm Autodialing and Remote Monitoring.



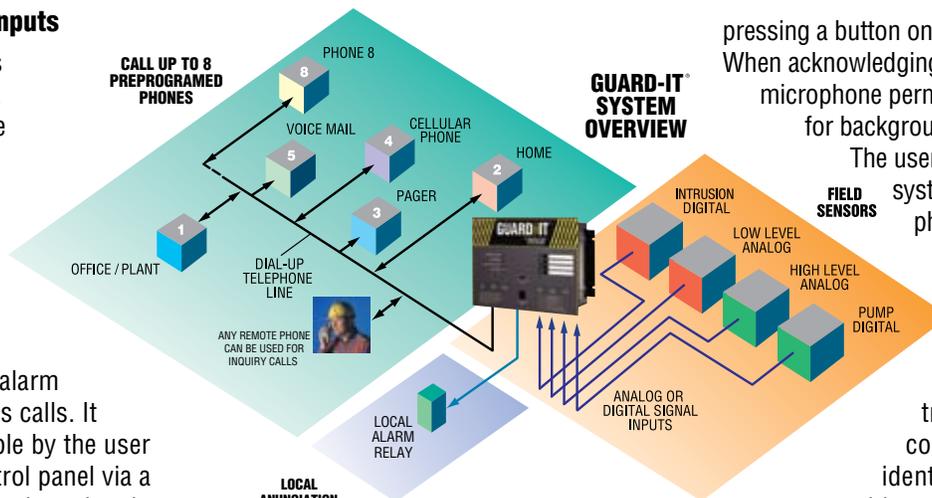
*GUARD-IT® delivers the functionality you need, and it's backed by RACO's reputation for dependability, quality, service and factory support.*

### Analog or Digital Inputs

GUARD-IT monitors four input channels. Each channel can be configured for an analog or digital signal input. The system utilizes the public telephone network as a basic medium for transmission of alarm messages and status calls. It is field-programmable by the user at the system's control panel via a standard touch-tone phone handset.

### Automatic Alarm Reporting

Upon detection of an alarm condition, GUARD-IT automatically calls a list of up to eight preprogrammed phone numbers over the standard dial-up telephone network, calling until it gets an acknowledgement. When a connection is made, the system reports the station identity and the



pressing a button on the called phone. When acknowledging an alarm, a built-in microphone permits the caller to listen for background sounds at the site.

The user can also call the system from any remote phone for a status report of all points being monitored.

### Voice Messaging

The voice transmission consists of a station identification, together with an alarm message, giving details on the fault.

The station identification and alarm messages are digitally recorded by the user. RACO pioneered the concept of using digitally recorded and synthesized voice messages in autodialers. By using electronic voice reporting technology, GUARD-IT eliminates the need for often unreliable audio tape autodialers.

specific alarm condition in the form of a digitally prerecorded voice message. In addition to standard phones in office, plant or home, the alarm calling sequence can also include calls to pagers, cellular phones and voice mail.

### Alarm Acknowledgement

An alarm is acknowledged simply by

# GUARD-IT<sup>®</sup>

## Set-up and Programming

System set-up, voice recording and programming is accomplished via an external touch-tone phone that plugs into a standard phone jack on the system's front panel. The user simply follows voice instructions given over the phone.

## System Controls

System operating status is provided by front panel LED indicators. System off / disarm / ready controls are provided on front panel. Surge protection and noise suppression are standard.

## A Truly Modern Autodialer

GUARD-IT fills the requirement of a modern autodialer — it should be extremely reliable and able to tell the called party as much information about the nature of an alarm as possible, so the right personnel can respond quickly and appropriately. Many other autodialers don't meet these requirements.

Compare GUARD-IT with all the others and you will see that this multi-featured system offers a way to get RACO flexibility, quality and dependability at a price you'd expect to pay for one of the budget models.

## Specifications

### ELECTRICAL

**Power Requirements:** User supplied 10–14 VDC, 500 mA max.

**Power Consumption:**

200 mA minimum standby  
500 mA maximum active

**Power Failure:** Automatic alarm for external power failure.

**Battery Charging:** Precision voltage controlled, automatic rapid recharge after drain.

**Universal Signal Inputs:**

Digital Inputs: Open contacts see 5 VDC; closed contacts see 5 mA DC.

Analog Inputs: 4–20 mA, single-ended. Maximum voltage drop 10 VDC. Resolution 0.2%; absolute accuracy 0.5%.

**Local Alarm Relay:** Transistor output for TTL or relay drive (500 mA 24 VDC max) activated during unacknowledged alarm.

**RJ11 Telephone** line jack for connection to public telephone network.

### PHYSICAL

**Surge Protection:** Solid state protectors on phone, power and signal lines.

**Enclosure:** Single circuit card in durable steel cabinet designed for mounting on control panel wall or flush-mounted inside a larger control panel with faceplate visible.

*Weight:* 4 lbs., 6 lbs. with battery

*Dimensions:* 6.85" H × 8.85" W × 2.85" D

*Mounting Centers:* 3.6" H × 9" W

### ENVIRONMENTAL

**Temperature Range:** 20° to 130°F.

**Humidity:** 0 to 95%, noncondensing.

### TELEPHONE

Rotary pulse or tone dialing.

Dials up to eight different numbers, each up to 60 digits long.

Time between alarm phone calls programmable to 0.1 to 99.9 minutes.

Smart calling call progress monitoring detects dial tone, basic ringback and busy signal.

Alarm acknowledgement by touch-tone key or callback.

Compatible with most pager, cellular and voice mail systems.

FCC-registered.

### PROGRAMMING

Standard phone jack on front panel for programming phone. Voice menu instructions guide programming.

### SPEECH MESSAGES

User digitally records five messages, station ID and four channel alarm messages. High-definition digital recordings up to 12 seconds per message. Resident synthesized voice vocabulary for programming guidance.

### FACTORY OPTIONS

Power Supply: UL Class 2 120 VAC 50/60 Hz adaptor.

Backup Battery: Internal 6 volt; 4 AH gel cell provides 20 hours operation during power failure.

NEMA 4X enclosure.

Cellularm<sup>®</sup> cellular communication system.

### WARRANTY

Two-year parts and labor warranty. See separate warranty card for details.



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1400 62nd St.  
Emeryville, CA 94608  
(510) 658-6713  
[sales@racoman.com](mailto:sales@racoman.com)  
[www.racoman.com](http://www.racoman.com)  
[www.raco-guard-it.com](http://www.raco-guard-it.com)

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