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# ENGINEERING SPECIFICATIONS

## SENSAPHONE® 1108 and 1118

## I. General

The Automatic dialer shall be a self-contained microprocessor controlled system capable of monitoring up to 8 alarm channels, sound level and AC power. The system shall be configured for operation by the user by means of the built-in keypad. Characteristics of Input channels include Dry Contact and Temperature.

Upon detection of any alarm or status change, the system shall commence dialing telephone numbers and deliver a voice message identifying and describing the alarm condition(s). The alarm message shall be delivered in digitized human voice using messages from the unit's internal vocabulary. The system will continue to call telephone numbers in succession until a positive acknowledgment of the alarm message is received. Acknowledgment is accomplished by depressing tone keys from the called telephone, or by calling the system back within a programmed time period. The alarm may also be acknowledged using the local keypad. In addition, the system shall be able to receive incoming telephone calls. Upon answering, the system shall recite a status report and allow enabling and disabling of monitored conditions.

The system shall be FCC and DOC registered for direct connection to the telephone network. The system shall be NRTL listed in compliance with UL Standard 1459. The system shall have a one year warranty from the manufacturer. The system shall be a Sensaphone® 1108 by Sensaphone, Inc.

## II. I/O Channel Attributes and Features

A. Inputs

The system shall come standard with 8 input channels, configurable as NO or NC digital dry contact or temperature.

The system shall have the following built-in monitoring features:

1. AC power failure detection
2. Temperature with pre-wired 2.8K thermistor (-20°F to 150° F) on input #1.
3. High sound level detection.

All monitored channels, including built-in monitoring features, shall allow local keypad programming of pertinent operational data including, but not limited to:

1. Input type (NO/NC or temperature)
2. High and Low limits (temperature)
3. Calibration of temperature inputs (-10° to +10°)
4. Input recognition time (0 seconds to 272 minutes)
5. Enable/disable for each channel to dialout for alarm

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## III. Communications Features

### A. Telephone Specifications

The system shall connect to a standard 2-wire telephone line using pulse or tone, with loop start only. The system shall recognize ringer frequencies from 16 to 60 Hz. No leased or dedicated lines shall be required. The system shall also be capable of being used on the same telephone line as other answering devices. Call progress detection shall ensure that the alarm dialout is not hindered by no answers or busy signals.

### B. Telephone Numbers

The system shall be capable of dialing up to 8 telephone numbers, 32 digits each. The system shall allow local keypad programming of the following telephone dialing information:

1. Dialing method (Pulse or tone)
2. Message repetitions (0 to 10)
3. Maximum number of calls (0 to 255)
4. Call delay time (0 seconds to 60 minutes)
5. Intercall delay time (10 seconds to 60 minutes)

### C. Beeper/Pager Dialout

The system shall be capable of intelligently dialing out to a numeric beeper or pager. The dialing sequence shall be programmable such that the pager number is dialed, the system waits for the telephone to be answered, and then additional identification DTMF digits are transmitted.

### D. Line Seizure Feature (Model 1118 only)

The system automatically seizes control of the phone line to make an alarm phone call when the alarm occurs. All other calls, including current calls, will disconnect and all extensions will be disabled. Extensions will remain cut off until the alarm is acknowledged.

## IV. Programming

### A. Local Programming

The System shall contain an integral, sealed keypad for the purpose of locally programming all system data. Programming is assisted by digitized voice guidance.

### B. Remote Programming

The system shall be remotely programmable using a standard touch-tone telephone. The following parameters may be remotely programmed:

1. Disable/enable inputs
2. Disable/enable AC power monitoring
3. Disable/enable high sound level monitoring
4. Activation of the status report
5. Activation of Listen-in

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## V. Remote Operation Features

### A. Status Report

The system shall allow the user to call into the unit at any time using any standard telephone to obtain a full status report of all monitored channels including present temperature and listen-in to on-site sounds. The status report shall be articulated using the resident digitized English vocabulary.

### B. Acknowledgment

An alarm on any monitored channel may be acknowledged remotely by pressing tones on a touch-tone telephone keypad or by calling the system back within a specified time period. An alarm may also be acknowledged locally using the built-in keypad.

## VI. Enclosure and Environmental

### A. Enclosure

The system shall be housed in a sturdy plastic enclosure suitable for desktop or wall-mounted installation. Dimensions: 7.8” x 8.8” x 2.1” Weight: 2 lbs.

### B. Power

The system shall be provided with a UL listed 8V AC power transformer that the user may plug into a 117V AC outlet, +20%, 60Hz. Power consumption: 5 watts.

### C. Battery Backup

The system shall have a battery compartment to hold 6 D-size alkaline batteries (not included). The batteries shall support approximately 24 hours of continued system operation in the absence of AC power.

### D. Electrical Protection

Power and telephone connection shall have internal spike and surge protection using metal oxide varistors.

### E. Additional Electrical Surge Protection

Additional Power and Telephone line surge protection shall be available from the manufacturer. When so installed, the system shall be fully warranted against any damage caused by transient surges entering the system through Power or Telephone lines.

### F. Environmental

The system shall function over an operating range of 32° F - 120° F at up to 0 - 90% RH, non-condensing.

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G. Maintenance

The system manufacturer shall have in-house service facilities and technical assistance available during normal business hours , Monday-Friday, 8am-5pm (EST).

Specifications subject to change without notice.

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