

AVAYA

VAC100

VOICE ALARM CIRCUIT

USERS GUIDE

COMCODE: 407 368 109

PEC CODE: 8801-021



Alarm System

Overview

The voice alarm system reports alarms by dialing pre-stored telephone numbers and reporting the alarm condition with prerecorded voice messages. Alarms are activated with dry closures. There are 7 alarm inputs (circuits 1 thru 7) and 1 panic input (circuit 8). The panic input is momentary and is reported to the PANIC telephone number.

Operation

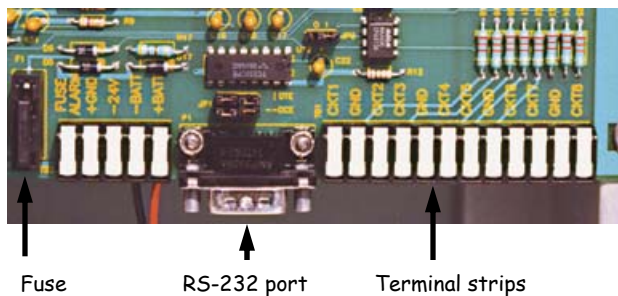
When the alarm system is first powered, it resets all input and output drivers off. Any input closure which remains for the preset detect time is then reported as an alarm. From 1 to 5 telephone numbers can be stored for dialing. After an alarm is detected, the first telephone number is dialed. The number must have at least 4 and less than 20 digits. After dialing, the message associated with the particular alarm input is voiced repeatedly for a preset time. After the preset time has passed, the call is terminated. If additional numbers are stored they are sequentially dialed and the alarm reported to each one. Multiple alarms will generate multiple alarm messages even if some of the alarms have been previously reported. No action is taken when the alarm goes away. Alarm conditions are archived at the start of dialing. Therefore, if an alarm goes away during dialing it will still be reported. However, it will not be reported to any additional numbers.

The alarm unit's status can be remotely determined by dialing the station number associated with the alarm unit and inputting a limited access password. Any alarms present will be voiced. Messages can be repeated by entering a "*" touch tone digit. Entering a "#" will cause the unit to disconnect. If no alarms are present, six short beep tones will be heard and the unit will disconnect. All maintenance features are accessed by dialing the alarm unit telephone number and entering the main password followed by the # key after the beep. New units are programmed with "1234567". The password must be entered within 15 seconds to put the system into test mode. After the password and # key are entered successfully, a 3 tone reply will be heard. This indicates

that the system is on-line and ready to receive touch tones. It will remain connected for 10 minutes unless a disconnect command is given. If the password is entered incorrectly, the system disconnects on the 15th second. Any number sequence, once started, must be completed within 15 seconds. All inputs are ended with a "#". Touch tones should not be entered while the unit is speaking until the short end tone is heard.

System startup

Connect the 24vdc power source to the power input terminals marked +GND and -24V. The active led indicator should start flashing to indicate processor activity. The main password is factory set to 1234567. The limited



access password is factory set to 1357. The variables are factory set to 3 seconds alarm detect, 5 audible rings, and 3 voice message repeats. Call the alarm unit and store a local telephone number in position 1 as described in "storing telephone numbers." Store message number 1. Disconnect by entering only "#".

Put a short from ckt 1 to the gnd next to it. The ckt 1 led indicator should turn on. The call led indicator should turn on after the detect delay. The called number should start ringing. After 2 or 3 rings, answer the call. Message 1 should start playing. It will repeat several times and the alarm unit will disconnect.

Enter the remaining numbers, messages, and changes to the variables if desired. Any setup data including the voice messages can be entered remotely if the alarm location is very noisy.

Programming

All maintenance features are accessed by dialing the alarm unit telephone number and entering the main password followed by the # sign after the beep. New units are programmed with "1234567" as the default password.

Storing telephone numbers

The first digit entered is "2" (number input option) followed by the position of the telephone number (1 - 5) followed by the telephone number and ending with "#". Storing "*" with the number causes a 2 second delay used for second dial tone. Previous numbers stored at any position are overwritten if new numbers are entered. To enter the panic telephone number, input "2" followed by position number "6" followed by the telephone number and ending with a "#".

Deleting telephone numbers

Enter "2" followed by the position digit (1 - 5) of the number to be deleted followed by "*" and end with "#".

Changing main password

To change the main password enter "1" followed by the new password and end with a "#". Passwords should be more than 4 and less than 20 digits.

Changing limited access password

To change the limited access password enter "6" followed by the new password.

The alarm unit's status can be remotely determined by dialing the station number associated with the alarm unit and inputting a limited access password. Any alarms present will be voiced. Messages can be repeated by entering a "*" touch tone digit. Entering a "#" will cause the unit to disconnect.

Recording a message

Enter "3" for voice recording followed by 1 of 8 message numbers. There is one message recorded for each alarm input. A short beep tone will be heard in response. The system starts recording right after the tone ends. It will record 7 seconds of audio after which it will output 3 short tones.

Checking a message

Enter "4" followed by the message number to play back a selected message. The message can be re-recorded again any time.

Checking Alarms

Enter "5" to check for any alarms present. A 3 tone reply will be heard followed by any active alarm messages.

Variables

Enter "7" followed by 3 single digit variables:
First digit is number of seconds alarm detect delay (factory default is 3). The second digit is maximum number of audible rings before disconnect (factory default is 5). The third digit is maximum number of voice message repeats (factory default is 3).

Inputting the date

Enter "9" followed by the date and time. The sequence is as follows. "yy mm dd hh mm #". The year, month, day, hour, minute. Two digits for each. This date and time is appended to alarm data generated from the RS-232 serial port.

***Hardware
specifications***

Power Required..... 24vdc 30ma idle, 50ma busy
Voice Output Level..... -20vu
Serial Output..... 9600bps, 8 bit, no parity, 1 stop
Touch tone output level..... -10vu
Touch tone input level..... -4vu to -32vu
Battery backup time... 100 hours (4 amp hr 12 volt battery)

Option digit list

To change an option, enter the maintenance mode. Enter the appropriate digits as shown in the KEYS TO ENTER column of the following table. The format is: [code key] [option keys / voice message].

OPTIONS	CODE	KEYS TO ENTER
CHANGE PASSWORD	1	[1] [4-19 digit password] #
ENTER PHONE NUMBER Only one number is required. A "*" in a number causes a 2 second pause. Numbers may be up to 19 digits long.	2	[2] [1] [1st phone number] # [2] [2] [2nd phone number] # [2] [3] [3rd phone number] # [2] [4] [4th phone number] # [2] [5] [5th phone number] # [2] [6] [PANIC phone number] #
ENTER ALARM MESSAGE Alarm messages are 7 seconds long. Wait for the confirming beep after speaking.	3	[3] [1] # [1st alarm message] [3] [2] # [2nd alarm message] [3] [3] # [3rd alarm message] [3] [4] # [4th alarm message] [3] [5] # [5th alarm message] [3] [6] # [6th alarm message] [3] [7] # [7th alarm message] [3] [8] # [PANIC alarm message]
PLAYBACK ALARM MESSAGE	4	[4] [1] # [playback 1st message] [4] [2] # [playback 2nd message] [4] [3] # [playback 3rd message] [4] [4] # [playback 4th message] [4] [5] # [playback 5th message] [4] [6] # [playback 6th message] [4] [7] # [playback 7th message] [4] [8] # [playback PANIC message]
CHECK FOR ACTIVE ALARM	5	[5] #
CHANGE LIMITED ACCESS PASSWORD	6	[6] [4-19 digit password] #
VARIABLES Each variable is a single digit from 1 to 9. Delay is the alarm detect delay in seconds. Rings is the number of rings before disconnect. Repeats is the number of times an alarm message is repeated.	7	[7] [delay] [max rings] [repeats] # Factory default is: 3 5 3.
INPUT DATE & TIME The year, month, day, hour, minute. 2 digits each. For RS-232 output.	9	[9] [yy] [mm] [dd] [hh] [mm] #



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