



SBC7180

SINGLE BOARD COMPUTER

USERS GUIDE

COMCODE: 406 217 984

PEC CODE: 8808-001



General

The SBC7180 processor card is used to remotely indicate alarms by sending touch tones over existing telephone facilities. Each card has 16 inputs for alarms and 16 outputs for indicators.

The input and output alarms are wired to the 56 pin connector that the card plugs into. The telephone line connects to the front via a 4 pin modular connector. The RS-232 and printer connectors are used in special applications.

The green led indicator blinks to indicate that the processor is running. If this indicator is not blinking then verify the 24vdc power input.

The amber led indicator is used to display telephone line loop current. It will be on whenever the telephone line is seized.

Operation

When the processor card is first powered, it sets all input and output drivers off. Any input differences which remain stable for .2 seconds are then reported as alarms. From 1 to 7 numbers can be stored for dialing. After an alarm is detected one of the numbers is randomly selected. The number must have at least 4 and less than 22 digits. The processor then goes off hook, dials the number and waits for the distant processor to respond. A response tone from the distant processor initiates the tone sequence for the detected alarm. Data error correction is used to validate the message integrity. If errors are detected, the receiving processor will request a resend. Resends are limited to 3.

If no response is received from the distant processor within 30 seconds after dialing completes, the processor disconnects the call and tries again. If other dialing numbers are stored, the processor will make the next call to a different number and retry the initial number afterwards. Numbers are redialed with unsuccessful completions for up to 7 times.

After the distant processor receives an alarm, it acknowledges its receipt and disconnects the call. It then grounds its corresponding output to turn an indicator on.

This indicator will remain on until an alarm message is received that turns it off or a power failure occurs.

Maintenance

To store, change or delete telephone numbers the processor card is called. If the card is connected as a PBX station it is best to make the call using an outside trunk. Station to station touch tone levels from a telephone are sometimes too high.

When the processor goes off hook it will reply with a short tone. The password must be dialed to enter the maintenance routine. All password entries must be completed within 15 seconds or the unit will disconnect. After the password is entered successfully, a 3 tone reply will be heard.

To exit the maintenance mode enter "#" by itself and the processor will disconnect. It will also disconnect if loop current is interrupted or if 5 minutes expires.

Storing telephone numbers

The first digit is the number selector "1" thru "7". This is followed by the number ending with a "#". Station numbers are used if 2 cards are connected as PBX stations. Storing a "*" with the number will cause a 2 second delay for second dial tone. Numbers may be station, local or long distance.

- ☞ *A three tone reply will be received if no errors are detected.*
- ☞ *A single long tone will indicate a reject.*
- ☞ *If a previous number was stored at the number selector, it will be overwritten with the new number.*

Deleting telephone numbers

Enter the first digit selector of the number to be deleted and follow it with a "#".

Changing the password

The first digit is "8" followed by the password and ending with a "#". The password may be 15 digits long.

Avaya Communication

Turning indicators on or off

The first digit is "9" followed by "1" for on or "2" for off followed by the indicator number "01" thru "16" and ending with a "#".

☞ *All indicators can be turned on by dialing "9300#".*

☞ *All indicators can be turned off by dialing "9400#".*

Specifications

SIZE	Type 10 card
WEIGHT	9.3oz
OPERATING VOLTAGE	24vdc
POWER CONSUMPTION	50mA
ALARM INPUT	5vdc > 24vdc @ 5mA
DETECTION TIME	200ms
INDICATOR OUTPUT	24vdc @ 100mA
BACKUP BATTERY	12vdc @ 2amp for 24hrs

Specifications subject to change without notice.



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