

R A D I O N I C S I N C.
228 Reindollar Avenue
Marina, CA 93933
(408) 384-8877

USING THE DCT-7B

- I. The DCT-7B is a battery operated device which allows full portability. Two batteries not supplied with the unit are required:

- 1 - 9 volt VS1323 or equivalent
- 1 - 1½ volt D-cell

It is necessary that good quality alkaline batteries be used. This will provide longer operation between battery changes. To conserve batteries always turn the front panel switch to "OFF" between tests and when not in use.

1) Installation of batteries.

- a) Remove the top cover by unscrewing the 2 screws on each side panel.
- b) Install the 9 volt battery in the clip provided attached to the rear of the unit.
- c) Orient the battery with the terminals facing the internal speaker.
- d) Attach the battery clip to the battery, the clip is polarized to fit the battery properly.
- e) Install the D cell in the clip provided in the bottom right of the DCT-7B. The positive pole of the battery must face the rear (toward the speaker).
- f) Two battery retainer clips have also been provided. These should be kept in place to prevent the batteries from jarring loose during rough handling.
- g) Replace the cover.

2)

- a) Slide rear panel switch to "DIGITAL" position.
- b) Slide front panel switch to "LINE" position.
- c) Slide power switch to "ON" position, the four tubes on the front panel should be lit and indicate zeros.

- d) Switch to test position - the first digit goes out.
- 3) Press "TONE" button - tone should be audible.

II. Procedure for Testing Communicators Prior to Installation (Off Line).

- 1) Set the rear "TAPE"- "DIGITAL" switch to the "DIGITAL" position.
- 2) Connect the test leads of the DCT-7B to the TIP and RING terminals of the communicator.
- 3) Set the DCT-7B Front Panel Switch to "TEST".
- 4) Turn front panel switch to "ON", the first digit should be dark, and the remaining 3 digits should display zeros.
- 5) Activate the communicator to an alarm condition, when the communicator comes on line the first digit will light.
- 6) As the telephone number is pulsed, its progress can be followed both audibly and visually in the 1st digit position of the DCT-7B display.
- 7) When the number is completed press the "TONE" button for about 2 seconds to simulate the signal which would be received from the central station at this time.
- 8) The code transmission will now start. If not see note on frequency adjustment. The code will be displayed on all four digits of the DCT-7B display.
- 9) Some brands of communicators require a reset tone after 2 or 4 rounds of transmission or they will redial. Press "TONE" button to give this signal. Others will send a fixed number rounds and reset themselves. Refer to manufacturers literature for this information.
- 10) The communicator should now be off line (first digit dark). Test complete.
- 11) To test the redial provision (for communicators which are so equipped) simply withhold the tone acknowledge signal mentioned in items 6 and/or 8 above.

III. Testing a Communicator's Operation on Line with the Central Station.

- 1) Clip the DCT-7B test leads across the TIP and RING terminals of the communicator.

- 2) Set DCT-7B to "LINE" position and turn to "ON".
- 3) Activate the communicator.
- 4) Observe operation.

IV. Use with Telephone Couplers.

Some couplers do not produce the signals necessary for the DCT-7B to sense the dial pulses, however the codes will transmit OK. Dialing can be tested using the off line procedure (item II) with the coupler disconnected.

V. Frequency Adjust.

- 1) Different manufacturers use different audio frequencies to control their communicators. The DCT-7B is preadjusted to the manufacturer indicated on the shipping carton.

SE = SESCOA

DCI = DIGITAL COMMUNICATIONS, INC.

SK = SILENT KNIGHT

AD = ADEMCO

- 2) Low 9 volt battery voltage can change the tone frequency of the DCT-7B. Always use alkaline batteries.

If communicators will not respond to DCT-7B signals (but will work with your central station) change the 9 volt battery.

If a new battery does not cure the trouble slightly adjust the "FREQ ADJ" with a small screwdriver and try again.

- 3) When changing from one manufacturer's communicator to another, the freq adjustment can best be made as follows with the communicator off line and the DCT-7B connected to it, activate an alarm (see item II). When an acknowledge tone is required, press the tone button and slowly turn the frequency adjustment pot with a small screwdriver, placed in the hole provided in the front panel until the communicator responds.
- 4) If you have trouble adjusting the frequency of your DCT-7B, we will try to help you by phone. Call us at (408) 373-7672. We can measure the frequency by phone and help you adjust the DCT-7B correctly for the alarm system you are using.

VI. Use with Tape Dialers.

- 1) Set the rear "TAPE"- "DIGITAL" switch in "TAPE" position.
- 2) Use as previously outlined.
- 3) The telephone number will be displayed in the first digit position.

DCT-7B - ADDITIONAL INSTRUCTIONS

In some instances, when using the DCT-7B on noisy telephone lines, the telephone number may not be correctly indicated in the display.

If this occurs, place the REAR Switch in the TAPE Position while monitoring the telephone number; then place the Switch in the DIGITAL Position during the tone transmissions.

RADIONICS DCT-7B

What it will do: Brief Summary

- 1) Show whether the alarm communicator is on line.
- 2) Display the telephone number as it is dialed.
- 3) Display all four code digits when used with digital communicators.
- 4) Allow the technician to supply acknowledge signals to the communicator.
- 5) Allow the tech to hear the entire transmission sequence.
- 6) Allow the communicator to be tested without calling the central station.
- 7) Allow the monitoring of the signal during actual transmission to the central station.
- 8) Most manufacturers recommend using a "listener", the DCT-7B fulfills this need.
- 9) Can be used as a continuity checker in the test position. When the circuit between the two test leads are complete the first digit will light.
- 10) Can be used in demonstrating communicators without a central station.

Many other uses for the DCT-7B are possible and we welcome hearing your own ideas.