

Dialing Type

The TD-100 can dial phone numbers in either pulse or tone mode. To chose enter the **IM**. Press **A** followed by **1** (pulse) or **2** (tone). The factory setting is pulse mode.

example: to change from pulse to tone dialing, press

A **2**
tone
dialing

Changing Installer Code

Enter the **IM**. Press **B** followed by four digits. Only **0** to **9** are accepted as valid inputs. This is confirmed by a longer beep. The factory default code is **1010**.

Reaction to Trigger

Enter the **IM**. Press **C**. Choosing :

- 0 - causes the TD-100 to complete three full calling cycles when triggered by the alarm.
 - 1 - causes the TD-100 to complete one full calling cycle when triggered by the alarm. It will then check to see if the alarm signal is still active. If it is, the TD-100 completes another full calling cycle. This process continues until the alarm signal is terminated.
 - 2 - causes the TD-100 to track the alarm signal when triggered. When the alarm signal is terminated, the TD-100 reenters standby mode.
- The factory setting is **0**.

example: to make the alarm complete three full calling cycles when triggered, press

C **0**
three full
cycles

Changing Active Input

Enter the **IM**. Press **D**. Choosing :

- 1 - selects an active high level input (rising edge). This occurs when the normally closed contacts of the alarm panel relay open.
- 2 - selects an active low level input (falling edge). This occurs when the normally open contacts of the alarm panel relay close.

The factory setting is **1**.

example: to make the TD-100 respond to active low inputs, press:

D **2**
low
active

Complete Reset

In the event that you forget your user or installer code (or for some other reason), It is possible to completely reset all parameters of the TD-100. To do this, open the front panel, disconnect the power and wait 1minute. Then install jumper JP1. Reconnect the power supply. Wait 10 seconds. At this time both LED's should flash and the speaker should beep. Remove jumper JP1 and replace the front panel. This procedure sets the following parameters:

access code: **1234**
installer code: **1010**
dialing type: **pulse**
trigger from panel: **rising edge (N.C.)**
TD-100 complete **three full calling cycles**



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Automatic Telephone Dialer TD-100

Description

The TD-100 is the help calling device for your security system. A small microcomputer controls all functions. When the alarm system instructs the TD-100 to perform, it does the following: It will call up to four phone numbers, each number can be up to 16 digits long. A pre-recorded message is played for each telephone number. The autodialer takes priority on your telephone line over incoming phone calls, faxes, etc. This keeps a thief from disabling your equipment by taking the telephone receiver off the hook. The telephone line is electrically separate from power and control lines. The TD-100 has special circuits to protect itself from lightning strikes on telephone lines. Tamper protection is also provided.

There are three levels of operation in the TD-100: *standby*, *user*, and *installer*. Two light emitting diodes on the front of the TD-100 show what level it is in. In *standby* mode the TD-100 waits for an input from either the alarm system or the built in keypad. At the *user* level you can enter and remove phone numbers; record the voice message; change the user code; or test the TD-100. At the *installer* level you can choose between pulse and tone dialing; choose the type of input that activates the TD-100; device response to triggering; or change the installer code. The phone numbers, voice message and configuration are stored in EEPROM memory. So removing power from the TD-100 will not erase them. An emergency reset feature can return factory settings when necessary.

Specifications

Operating Voltage	10 to 14 VDC
Operating Current	10 mA (standby), 48 mA (max.)
Tel. Numbers	4numbers; 16digits max. each
Voice Message	20 seconds maximum

Installation

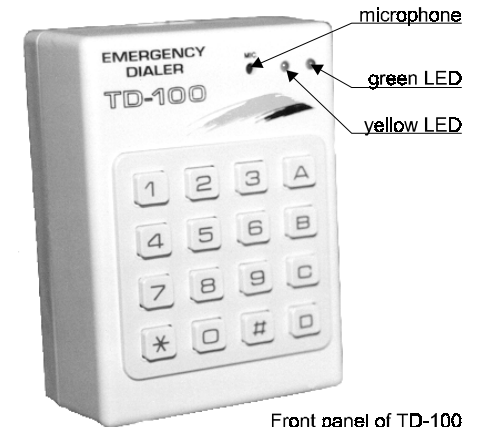
Open the cover on the dialer by pressing the lock on the top on the TD-100. Pull the ribbon cable off at its junction on the lower printed circuit board (PCB). Remove the screw in the center of the lower PCB. Remove the lower PCB from the rear backing plate. Route wires for telephone, surge protection (earth), control and power through the large oval hole in the bottom of the rear housing plate. Attach the plate to the wall using screws. Reinstall lower PCB into the rear housing and tighten with screw.

Note: the installation should be made by professional who is approved to make connection to telephone lines.

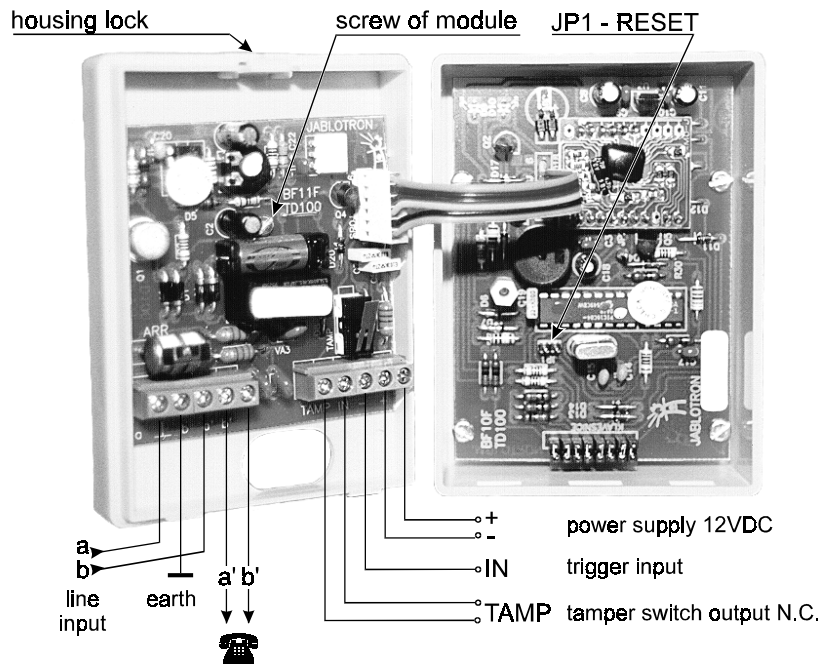
Terminal Description

- **a b** telephone line input
- **a' b'** telephone line output (fax machine, etc.).
- **⊥** protective earth for telephone line lightning protection
- **IN** trigger input. It can be triggered either by the normally open or normally closed output relay contacts (rising or falling edge of 12V) - programmable
- **TAMP** tamper switch (normally closed contacts)
- **+/-** external power supply (+12 VDC)

Check all the connections. Reconnect the ribbon cable to the lower PCB without twisting it. Put the front cover on. Complete external connections.



Front panel of TD-100



Operation/Programming

Note: During programming, pressing any button creates a short beep from the speaker. After a step is complete (i.e., entering a new user code) a longer beep from the speaker will confirm it. An error in programming (i.e., pressing buttons out of order) creates three short beeps from the speaker.

1. STANDBY MODE

In standby mode (SM), both LED's are off. The dialer is waiting for an input from either the keypad or the alarm panel. After triggering from the control panel, the device performs the following actions:

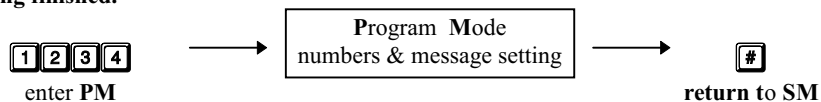
The TD-100 disconnects telephone, fax or other device from the line. It will then BREAK the connection. It will dial the first telephone number programmed in memory. The TD-100 then repeats the recorded voice message (for 40 seconds). It takes the second number in memory and repeats the process for all programmed numbers the same way.

If the alarm was accidental, stop the TD-100 by first turning off your alarm at the panel. Then press the **[0]** button (and hold until beep) on the TD-100 keypad.

2. PROGRAM MODE

To enter program mode (PM) enter your access code. The factory setting is 1234. When in programming mode the green LED is on the yellow LED is off.

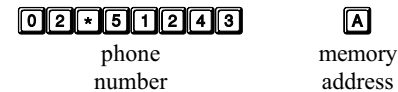
The **[#]** button returns you to standby mode. Do not forget to return to standby when programming finished.



Entering Phone Numbers

Enter the PM. Dial the phone number then specify which memory address you want it to take. Letters **[A]** to **[D]** are the first to fourth addresses. The phone number can be up to 16 digits long. Use the **[*]** button as a pause between numbers in the phone number. (It can not be the first digit in the code though!) Use this between the area code and rest of the number.

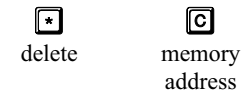
example: to enter the phone number 02-51243 into the first address type the following:



Deleting Phone Numbers

Enter the PM. Press the **[*]** key, followed the letter corresponding to the memory address of number you want to delete. During dialing the TD-100 skips addresses that do not have telephone numbers.

example: To delete the third telephone number, Press:



Changing the Voice Message

Enter the PM. Press **[A]** and hold. The both LED's should be on. With your mouth about 20 cm (8 inch) from the microphone say your message. Speak clearly. When you are finished release the **[A]**. The yellow LED should turn off. Exceeding the 20 second time limit causes the yellow LED to flash. If this happens, the recording is finished. You can repeat the process, if necessary.

Changing the User Code

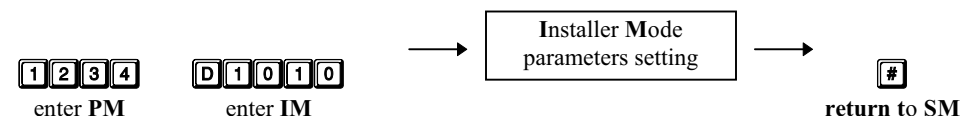
Enter the PM. Press **[B]** followed by four digits. Only **[0]** to **[9]** are accepted as valid inputs. This is confirmed with a longer beep. The factory default code is 1234.

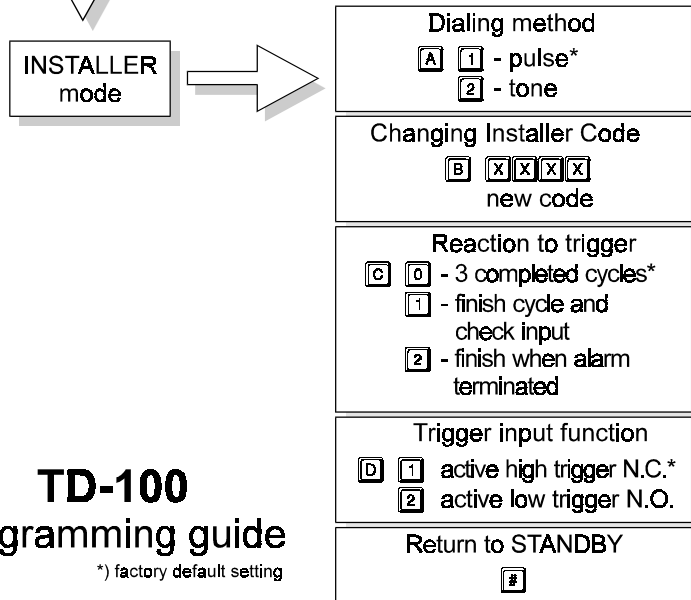
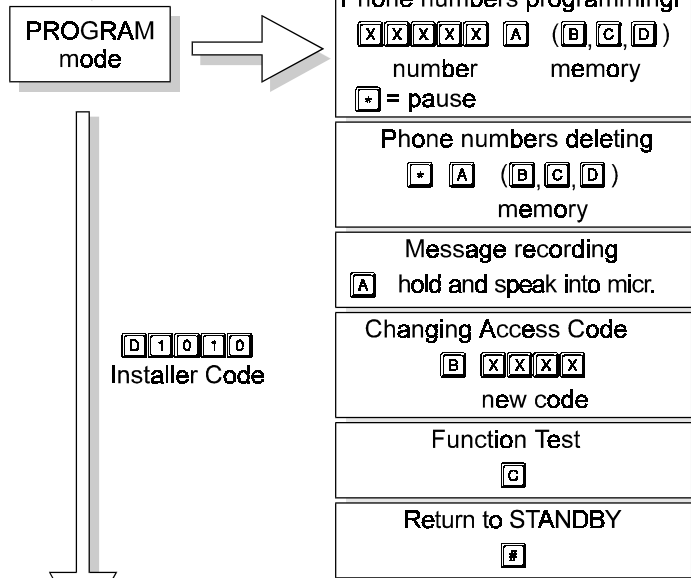
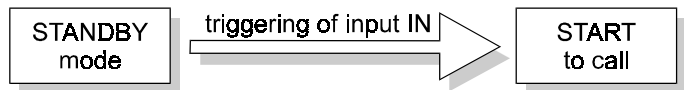
Testing the TD-100

Before beginning call ahead to the phone numbers entered in memory to warn them of your test. Then enter the PM and press **[C]**. The test will call each phone number one time and play the voice message for each programmed number. After completion the TD-100 will beep three times.

2. INSTALLER MODE

To enter the installer mode (IM), first enter the PM. Then press **[D]** followed by the installers code. The factory default is 1010. At this time the green LED should turn off and the yellow LED should turn on. To exit this mode press the **[#]** key. This exits to standby mode.



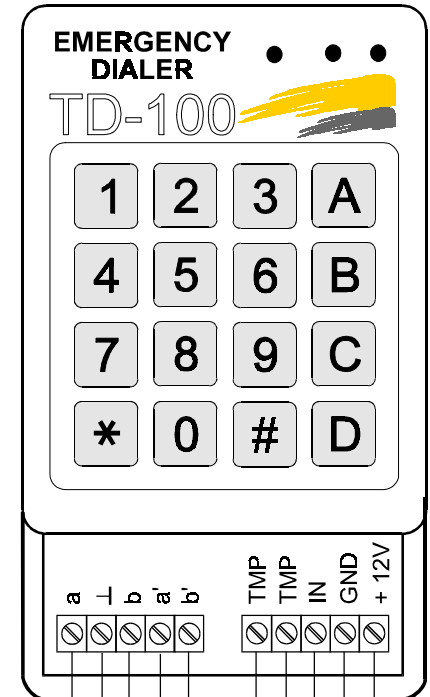


TD-100 programming guide

*) factory default setting

Example of TD-100 use

Automatic Telephone Dialer TD-100



Trigger input programmed for N.C. (factory default)

Note : symbol \perp means connection to protective Earth (over-voltage protection)

