



## Instructions for Installation and Use *Please Read Before Installing*

## HomeWorks® Telephone Interface

### HWI-TEL9

18 V~ 60 Hz 300 mA

### General Description

The HWI-TEL9 Single Line Telephone Interface provides access to up to ten different functions or events in the *HomeWorks* system from touch-tone phones inside or outside the house. Each function can be programmed to control any of the devices connected to a *HomeWorks* system. Digitally recorded voice messages provide custom responses for each of the programmed functions.

### Safety Precautions

Telephone lines conduct a small amount of electrical current. Although unlikely to cause harm, the following precautions are advised:

1. Disconnect the telephone line at the network interface.
2. Never work with telephone wiring during a thunderstorm.
3. Persons with pacemakers should never work with telephone wiring.

### Important Installation Information

The HWI-TEL9 is designed with multiple operational modes, each of which is best suited for a particular phone system configuration. Please read the section on **Configuration** prior to installation if you are not completely familiar with the options that are available to you and your customer.

### Installation

Remove power from both the *HomeWorks* panel and the HWI-TEL9 before wiring.

1. Surface mount the HWI-TEL9 enclosure on the wall using the four mounting holes (see Figure 1). The unit should be located near the phone line point of entry, and within 6 feet of a 120 V~ receptacle.
2. Remove the four phillips screws that secure the cover of the enclosure.
3. Use the knockout in either the lower left or lower right corner of the enclosure to pass wires through for the: telephone line connections, plug-in transformer cord, and *HomeWorks* Keypad Link (see Figure 2). The wires should be strain-relieved using an entrance fitting.
4. This device must be permanently grounded. Connect a ground wire to the green screw inside the enclosure and run it to the chassis ground connection at the telephone network interface.
5. Connect the HWI-TEL9 to the *HomeWorks* Keypad Link using the supplied terminal block. One pair #18 (terminals 1 and 2) and one pair #18–22 twisted and shielded (terminals 3 and 4) are required for connecting to the *HomeWorks* Keypad Link (see Figure 2).

Figure 1 - Panel Mounting

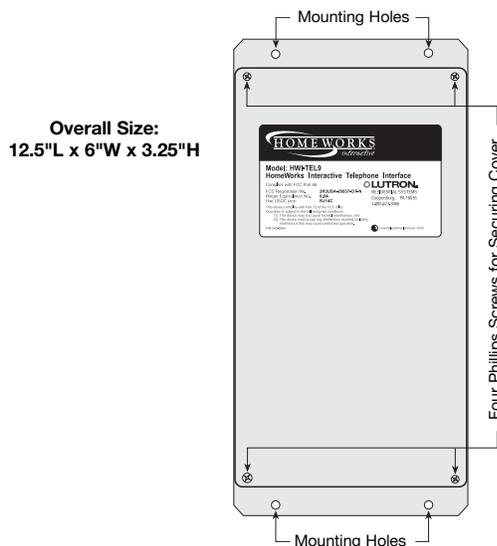
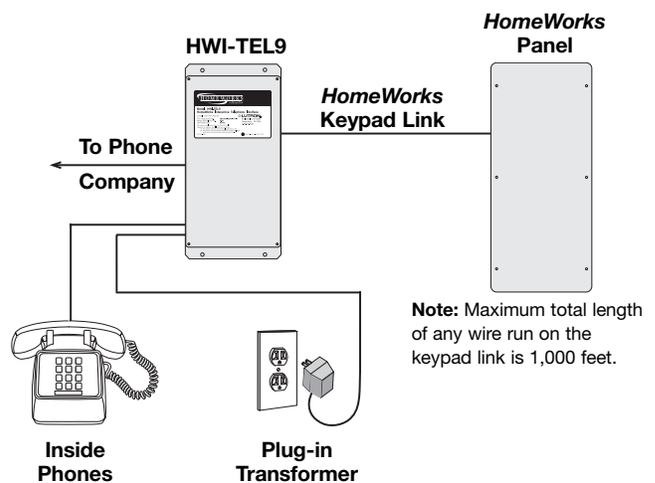


Figure 2 - Wiring Layout



6. Connect the telephone line from the telephone company to the jack labeled OUTSIDE PHONE. The Tip and Ring conductors must be the inner pair of conductors in the phone plug (see Figure 3).

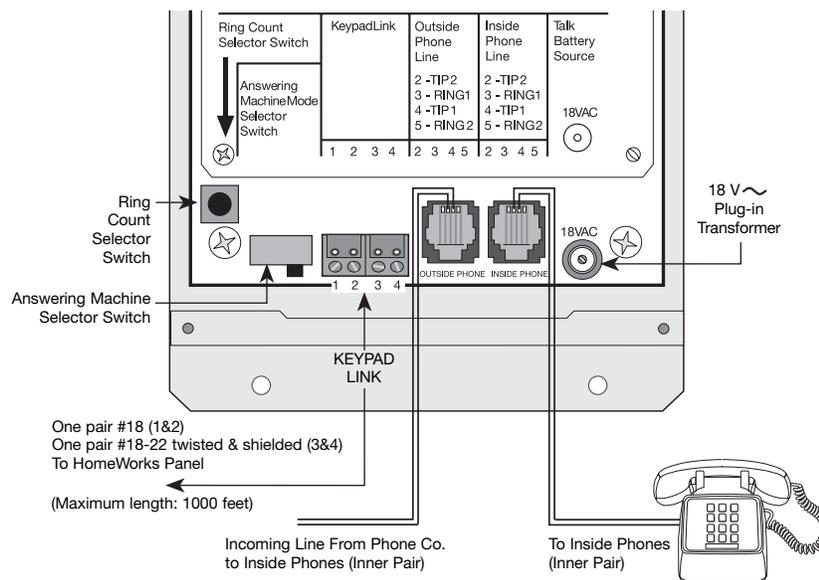
A standard telephone wiring configuration will have a second pair of conductors which are located on the outer pair of a phone plug. The HWI-TEL9 passes this outer pair directly through from the OUTSIDE PHONE jack to the INSIDE PHONE jack so that standard two-line phone wiring will not require any modifications (Note: This second pair is not shown in Figure 3).

In the two-line phone configuration, inside access to the HWI-TEL9 will only be available on line 1 (the inner pair of conductors). Access from line 2 (the outer pair of conductors) will only be possible by calling line 1 and accessing the HWI-TEL9 in the same way that it would be accessed from any outside phone.

7. Connect the phone wiring for all of the phones inside the house to the jack labeled INSIDE PHONE. Again, the inner pair are Tip and Ring for line 1. The outer pair are for line 2, which is not used by the HWI-TEL9, but is passed directly through. **Important Note:** The HWI-TEL9 must be in a series connection between the telephone company and any inside phones. The only devices that should be connected directly to the telephone company (effectively in parallel with the HWI-TEL9) are alarm system dialers and other emergency phone equipment.
8. When all phone wiring is complete, it should be tested by performing the following:
  - a. Reconnect the telephone lines at the telephone network interface.

- b. Unplug the Keypad Link connector from the HWI-TEL9.
  - c. Go to every phone in the house and verify that a dial tone is present on line 1 (and line 2 if applicable). If a dial tone is not present, a wiring problem exists.
  - d. Unplug the INSIDE PHONE jack on the HWI-TEL9.
  - e. Go to every phone in the house and verify that a dial tone is **NOT** present on line 1 (and line 2 if wired through the HWI-TEL9).
  - f. Any phone that has a dial tone in **step e** is connected in parallel with the HWI-TEL9 rather than in series with it, and will not work properly with the HWI-TEL9. Return to **steps 6 and 7** for instructions on how to properly wire these phones.
  - g. Plug in the Keypad Link connector and the INSIDE PHONE plug on the HWI-TEL9.
9. Plug the supplied transformer into the wall and into the power jack on the HWI-TEL9 unit. There is a green LED next to the transformer plug which will light to indicate the 18 V ~ power.
  10. Return power to the HomeWorks® panel.
  11. Ensure that the Operational Mode Selector Switch is set to the Normal position. The Display will blink “32” (the device’s address) when there are communications with the *HomeWorks* panel. It will blink “00” if there are no communications and will be blank if there is no power being supplied by the *HomeWorks* Processor.

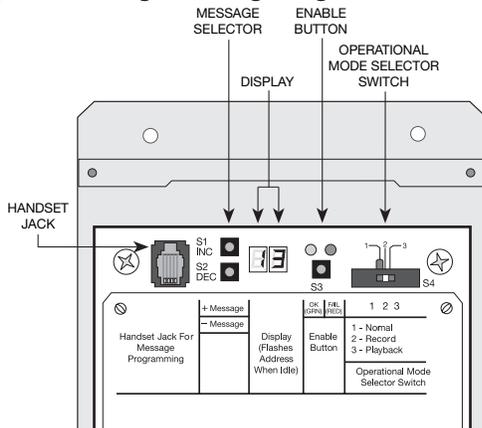
Figure 3 - Panel Wiring



12. Ensure that the Answering Machine Mode Selector Switch is set to the appropriate position, Answering Machine or No Answering Machine. See the **Configuration** section for more information on the mode that you require.
13. Ensure that the Ring Count Selector Switch is set to the appropriate position.
14. Ensure that all voice messages are recorded as desired. See the **Voice Recording and Playback** section for more information.
15. Program the HWI-TEL9's Pickup Code, Access Code, and Status List. Refer to the **Programming** section for detailed instructions on how to perform the programming. Even if you intend to use the HomeWorks® Utility to set the Pickup Code, Access Code, and Status List, refer to the **Programming** section for specific guidance on allowable codes.
16. Remove the handset from the HANDSET jack, tighten the strain relief, and replace the cover and screws.

## Voice Recording and Playback

Figure 4 - Programming Diagram



The HWI-TEL9 comes with a prerecorded set of voice messages. To rerecord and customize these messages requires a handset from a standard analog telephone and that either:

- a. The unit must be wired into the *HomeWorks* system, or
- b. A 15 V $\overline{\text{DC}}$  power supply (not provided) be used. The supply must be connected between Pins 1 and 2 of the unit's Keypad Link connector, with the positive terminal tied to Pin 2.

The recording process can take place either before or after the unit is installed, at the installer's convenience. However, any recording should be done in as quiet an environment as possible to reduce background noise.

Look over the List of Voice Messages, Table 1, and the Custom Messages Worksheet, Table 2. Messages

1-38 are integral to the operation of the HWI-TEL9 and must be recorded as noted in Table 1, "List of Voice Messages." If it is desired, these messages may be recorded over with a different voice, but their contents must remain as specified in Table 1.

The remaining messages, 39-68, are intended for customization to individual homes. Fill out the Custom Messages Worksheet, Table 2, with the function names and state labels that you wish to record. When programming the active and inactive states for the custom voice messages, you should consider what the button function does. If the LED logic for a button function is programmed as "room" or "pathway", you may want to record "Is on" and "Is off" for the active and inactive states. Also, if you have a button that controls a single zone, you probably will want to use room LED logic. If the LED logic for a button is programmed as "scene" logic, you may want to record "Is active" and "Is not active" for the states.

## Recording Custom Voice Messages

To record over your pre-recorded messages:

1. Remove the unit's enclosure cover.
2. Provide power from either the *HomeWorks* Panel or a 15 V $\overline{\text{DC}}$  source, as described above.
3. Plug a handset from a standard analog telephone into the HANDSET jack on the HWI-TEL9.
4. Set the Operational Mode Selector Switch to the RECORD position. The Display will show the number of the voice message which is ready to be recorded.

If the number displayed is not the desired message to record, press the +MESSAGE button or -MESSAGE button and hold until the number for the desired message is displayed.

5. To record a message, press and hold the ENABLE button while speaking into the handset. Release the ENABLE button when you have finished saying the message.

If the green LED lights, you have successfully recorded a message. The Display will increment itself so that the next message can be recorded.

If the red LED lights, you have exceeded the time limit of that voice message. The Display will not increment itself, and you will have the opportunity to repeat the process and rerecord the message.

6. If you wish to hear the message which you have just recorded, refer to the PLAYBACK section below.
7. When finished with RECORD functions, set the Operational Mode Selector Switch to the NORMAL position.

## Playback

**To listen to the pre-recorded or to your custom recorded messages:**

1. The unit's enclosure cover must be removed, 15 V $\overline{=}$  power must be supplied, and a handset must be plugged into the appropriate jack, as described in steps 1,2, and 3 of the Record section above.
2. Set the Operational Mode Selector Switch to the PLAYBACK position.
3. If entering PLAYBACK from the NORMAL position, the Display shows "01".  
If entering PLAYBACK from the RECORD position, the Display shows the last message recorded in the RECORD position.  
If the number displayed is not the message desired for playback, press the +MESSAGE button or the -MESSAGE button and hold until the number for the desired message is displayed.
4. To play the message for the number shown, momentarily press the ENABLE button while listening on the handset.
5. After the message for the displayed number is played, the message number will advance to the next recorded message. Press the ENABLE button again and the next message will play. Other messages can be played by selecting the desired message numbers using the +MESSAGE button or the -MESSAGE button, then repeating step 4.
6. When finished with the PLAYBACK functions, set the Operational Mode Selection Switch to the NORMAL position.

## Configuration

The HWI-TEL9 can be set for one of multiple situations involving answering machines and services. The two most common:

- a. An answering machine inside the house shares the phone line.
- b. The occupant does not own any device which would automatically pick up a ringing phone line.

Read the following descriptions of the operation in each mode carefully to decide which is appropriate for the particular homeowner. Note that the Answering Machine Mode selection has no effect on a user accessing the system from an inside phone; the only difference occurs when dialing in to access the HWI-TEL9 from outside the house.

### Answering Machine Mode

In Answering Machine Mode, the HWI-TEL9 will never pick up the phone until after another device on the same line answers the incoming call.

#### To access the system in Answering Machine Mode

1. Dial the phone number of the residence.
2. Wait for the answering machine to pick the ringing line up.
3. While the answering machine plays its greeting message, enter the Access Code (see **Access Codes** on page 5). After receiving the correct Access Code, the HWI-TEL9 will disconnect the answering machine and allow the user access to control the lighting system. If the user fails to acquire access, they should wait until the answering machine's greeting message is complete, and then re-enter their Access Code.

#### To configure for Answering Machine Mode

1. Set the Answering Machine Mode Selector Switch to Answering Machine.
2. Set the Ring Count Selector Switch to a number equal to or less than the number of rings which the answering machine is set to pick up on. The HWI-TEL9 will not accept any password unless the phone has rung at least as many times as indicated on the Ring Count Selector Switch. Be aware that answering machines with toll-saver modes may pickup on a different number of rings depending on if the answering machine has recorded messages. Setting the Ring Count Selector Switch to 2 will usually avoid problems caused by toll-saver features.

## No Answering Machine Mode

In this mode, the HWI-TEL9 will pick up the ringing phone line after the phone has rung the number of times indicated by the Ring Count Selector Switch. If the HWI-TEL9 is connected to a dedicated phone line (i.e. no other phone devices are connected to the line), this mode should be used.

### To access the system in No Answering Machine Mode

1. Dial the phone number of the residence. After the number of rings indicated on the Ring Count Selector Switch the HWI-TEL9 will answer and prompt the caller by saying "Proceed."
2. Enter the appropriate Access Code (see **Access Codes** on page 5).
3. After the correct code has been entered, the user will be able to access the functions of the HWI-TEL9.

### To configure for No Answering Machine Mode

1. Set the Answering Machine Mode Selector Switch to "No Answering Machine".
2. Set the Ring Count Selector Switch to the number of rings at which you would like the HWI-TEL9 to pick up after. (For a non-dedicated phone line, a reasonably high number, such as eight, is recommended. For a dedicated phone line, a low number is typically used.) If the telephone is answered before the indicated number of rings, the HWI-TEL9 will do nothing.

## Other Possible Situations

The HWI-TEL9 also has the ability to work in other configurations. These include:

### Dedicated Line

If it is desired, the HWI-TEL9 can be assigned its own dedicated outside line. In this case, there is no direct access to the HWI-TEL9 from phones within the house.

To access the system from inside the house, a user must dial out to the phone number dedicated to the HWI-TEL9. All setup of Status List, Pickup Code, and Access Code must be done through the HomeWorks® Utility.

To configure for a dedicated line, set the mode to "No Answering Machine" and the Ring Count Selector Switch to one.

### Outside Answering Service

A homeowner may be using the Bell Atlantic or another automatic, central telephone company operated answering service. If this is the case, the HWI-TEL9 can still be used, but requires a special access method.

## To access the system in the Outside Answering Service configuration

1. Dial the appropriate phone number and allow the phone to ring only once.
2. Hang up and wait at least 5, but no more than 30 seconds.
3. Redial, and the HWI-TEL9 will answer immediately.
4. Enter the Outside Access Code.

To configure the system for this mode, set the HWI-TEL9 to "No Answering Machine" mode and the Ring Count Selector Switch to "F".

## Programming

### Access Codes

There are two distinct Access Codes associated with the HWI-TEL9: the Inside Pickup Code and the Outside Access Code. These codes can be set through the *HomeWorks* Utility or by a user accessing the system on an inside phone. If the codes are set through the *HomeWorks* Utility, then the HWI-TEL9 unit must be attached to the *HomeWorks* system at the time the information is uploaded to the panel.

The Inside Pickup Code is a two to four digit number which is dialed to access the system from within the house. The Outside Access Code is a four digit number which must be entered when calling the HWI-TEL9 from outside the house. The default Inside Pickup Code is the "hookflash," i.e., depress and quickly release the hookswitch. If the phone has a flash button, it can be used as well.

### To manually change the Inside Pickup Code

1. Access the system initially by using the "hookflash" (refer to the above section), or the current Pickup Code if it has been previously changed.
2. Press "#" followed by "P" (button 7) on the telephone — The system responds with "Programming Pickup Code."
3. Enter the new sequence by pressing a combination of two to four buttons (ex.: (2,#) or (5,6,7,\*)). The sequence should be chosen so that it is unique to the HWI-TEL9 and does not access other systems. The following are suggestions that may be helpful in selecting a Pickup Code that will not conflict with other systems.
  - a. The HWI-TEL9 will not permit a Pickup Code that begins with "91". This is prohibited to avoid conflicts with dialing "911" in the event of an emergency.
  - b. Pickup codes starting with "0", "1" and local area codes are not suggested because of conflicts with dialing the operator, long distance and local extensions.

- c. Using a Pickup Code consisting of a number followed by the pound (#) or star (\*) button is a good choice to avoid conflicts (ex.: (5, \*)).
  - d. If your Pickup Code is set to “hookflash” and you are experiencing problems, you should change it to a sequence of numbers.
4. If no buttons are pressed within three seconds and no more than four buttons total are pressed, the system repeats the new Pickup Code. This is an acknowledgment by the system that it has accepted the new code. If the code needs to be changed again, return to step 2 above.
  5. If the Pickup Code is forgotten or interferes with other systems, the Pickup Code can be reset to the default “hookswitch flash” as follows:  
Before proceeding, be certain that no phones are accessing the system.
    - a. Move the Operational Mode Selector Switch to the NORMAL mode.
    - b. Press the ENABLE button inside the HWI-TEL9 enclosure and hold for five seconds.
    - c. The green LED flashes once indicating the Pickup Code is reset.

**To Manually Change the Outside Access Code**

1. Access the system from inside the house using the current Pickup Code.
2. Press “#” followed by “A” (button 2). The system responds with “Programming Access Code.”
3. Enter a four-digit Access Code.
4. The system responds by repeating the new Access Code.
5. The Access Code may be changed by repeating the above procedure.

**Status List**

Whenever the system is accessed from either an outside phone (with the Access Code) or an inside phone (with the Pickup Code), the system responds with a list of status conditions. This list initially contains only the status of the Security System and Vacation Mode. The contents of this list are programmable via the HomeWorks® Utility.

Button functions may manually be added to or deleted from the list as follows:

1. Access the system from inside the house using the Pickup Code.
2. Press “#” followed by “L” (button 5). The system responds with “Programming List.”
3. To add a button to the list, press “\*” followed by the desired button. The system responds with “Button ‘n’ on list.”
4. To delete a button from the list, press “#” followed by the desired button. The system responds with “Button ‘n’ off list.”

5. Continue to add and/or delete buttons from the status list by repeating the above procedure.
6. To end the programming session, hang up or press “#”, “#”.
7. The status list may be changed at any time by repeating the above procedure.

**System Programming**

The button functions of the HWI-TEL9 must be programmed with the *HomeWorks* Utility and a personal computer through the RS-232 connection on the *HomeWorks* processor.

**Use of the HWI-TEL9**

Although the HWI-TEL9 can be accessed from either inside or outside of the house, not all of the functions of the HWI-TEL9 are available from both methods of access. Please see the following chart:

Function	Inside	Outside
Control of Up to Ten Events	Yes	Yes
Monitor the Status of those Ten Events	Yes	Yes
Add or Delete Buttons from the Status List	Yes	No
Change the Pickup and Access Codes	Yes	No

**Accessing the system**

**From an inside phone**

1. Pick up any inside phone and within 5 seconds, either enter the Pickup Code, or perform a hookflash, whichever has been programmed for the HWI-TEL9.

**From an outside phone, in answering machine mode**

1. Dial the phone number of the residence.
2. When the answering machine picks up, enter the Access Code. The Access Code can be entered while the answering machine is playing its greeting message. However, if you experience problems accessing the system during the greeting, you may have to wait until it is finished to enter your Access Code. This will ensure the greeting message does not interfere with the Access Code tones.
3. The HWI-TEL9 will disconnect the caller from the answering machine, and the caller will be in the system.

**From an outside phone, in No Answering Machine Mode**

1. Dial the phone number of the residence.
2. After the preset number of rings, the HWI-TEL9 will automatically answer the phone line and will prompt the caller for the Access Code by saying “Proceed”.
3. Enter the Access Code, and the caller will be in the system.

## Lockout

After three consecutive wrong password attempts, in either of the two Answering Machine Modes, the system will lock out any outside access for thirty minutes.

## Use

Upon accessing the system, the user will hear messages describing the current state of any functions which are in the Status List. This message will always include the status of the Security System and Vacation Mode. Other button functions can also be added to this list (see **Status List** on page 5)

## Checking System Status

After accessing the system from an inside phone using the Pickup Code or from an outside phone using the Access Code, the system responds with the list of status conditions. Repeat the Status List or check the status of a specific button as follows:

1. Press “\*” twice for the system to list the status of the Security System, Vacation Mode, and any of the ten button functions programmed on the Status List.
2. Alternatively, press “\*,” then “n” (any button 0 through 9) for the system to state the status of button “n” only.

## Activating/Deactivating Events

After accessing the system from an inside phone using the Pickup Code or from an outside phone using the Access Code, the system responds with the list of status conditions.

To control a function programmed to a specific button, press the button to which the event is programmed. The system responds with the button label and new status.

## Ending Access to the System

When you have finished accessing the system, simply hang up at any point. The HWI-TEL9 will reset within 15 seconds.

During system access, if no tones (button presses) are entered into the system within a 15-second period, the HWI-TEL9 automatically disconnects, even if the handset is still off-hook.

## FCC Compliance

The HWI-TEL9 complies with Part 68 of the FCC rules. On the front lid of this equipment is a label that contains, among other information, the FCC registration number and ringer equivalence number (REN- 0.6A) for this equipment. If requested, this information must be provided to the telephone company.

The only registration jack USOC contained on the HWI-TEL9 is RJ-14C and is FCC compliant. This equipment is designed to be connected to the telephone network or premises wiring using a compatible telephone cord and modular plug which is Part 68 compliant.

The REN is used to determine the quantity of devices which may be connected to the telephone line. Excessive RENs on the telephone line may result in the devices not ringing in response to an incoming call. In most, but not all areas, the sum of RENs should not exceed five (5.0). To be certain of the number of devices that may be connected to a line, as determined by the total RENs, contact the local telephone company.

If the terminal equipment HWI-TEL9 causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice is not practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

The telephone company may make changes in its facilities, equipment, operations or procedures that could affect the operation of this equipment. If this happens the telephone company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.

If trouble is experienced with this equipment, please contact Lutron Electronics on 7200 Suter Road, in Coopersburg, PA 18036, 1-800-523-9466 for repair and/or warranty information. If the trouble is causing harm to the telephone network, the telephone company may request you remove the equipment from the network until the problem is resolved.

The customer can make repairs to the phone wiring for any inside or outside phone lines connected to the HWI-TEL9. The customer can replace the 18 V~ plug-in transformer.

The HWI-TEL9 cannot be used on public coin phone service provided by the telephone company. Connection to party line service is subject to state tariffs. (Contact the state public utility commission, public service commission or corporation commission for information.)

**Warning:** Changes or modifications to this unit not expressly approved by the party responsible for

compliance could void the user's authority to operate the equipment.

**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**Caution:** Changes or modifications not expressly approved by Lutron Electronics Co. could void the user's authority to operate this equipment.

Operation is subject to the following:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

## Industry Canada Compliance

"NOTICE: The Industry Canada label identifies certified equipment. This certification means that the equipment meets certain telecommunications network protective, operational and safety requirements. The Industry Canada does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. In some cases, the company's inside wiring associated with a single line individual service may be extended by means of a certified connector assembly (telephone extension cord). The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be made by an authorized Canadian maintenance facility designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions,

may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

**Caution:** Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority or electrician, as appropriate".

The Ringer Equivalence Value (REN) assigned to each terminal device provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Numbers of all the devices does not exceed 5.

**Table 1: List of Voice Messages**

Message No.	Time (sec.)	Contents of Message	Message No.	Time (sec.)	Contents of Message
1	1.6	Button one	35	1.2	On
2	1.6	Button two	36	1.2	Off
3	1.6	Button three	37	2.0	List
4	1.6	Button four	38	2.0	Is prohibited
5	1.6	Button five	39	2.0	Button one label (ex: "garage lights")
6	1.6	Button six	40	1.6	Button one active state (ex: "are on")
7	1.6	Button seven	41	1.6	Button one inactive state (ex: "are off")
8	1.6	Button eight	42	2.0	Button two label
9	1.6	Button nine	43	1.6	Button two active state
10	1.6	Button zero	44	1.6	Button two inactive state
11	1.6	Pick-up code	45	2.0	Button three label
12	1.6	Error	46	1.6	Button three active state
13	1.6	Proceed	47	1.6	Button three inactive state
14	1.6	Vacation mode	48	2.0	Button four label
15	2.0	Is not active	49	1.6	Button four active state
16	1.6	Is playing	50	1.6	Button four inactive state
17	1.6	Is recording	51	2.0	Button five label
18	1.6	Programming	52	1.6	Button five active state
19	1.6	Access code	53	1.6	Button five inactive state
20	1.2	One	54	2.0	Button six label
21	1.2	Two	55	1.6	Button six active state
22	1.2	Three	56	1.6	Button six inactive state
23	1.2	Four	57	2.0	Button seven label
24	1.2	Five	58	1.6	Button seven active state
25	1.2	Six	59	1.6	Button seven inactive state
26	1.2	Seven	60	2.0	Button eight label
27	1.2	Eight	61	1.6	Button eight active state
28	1.2	Nine	62	1.6	Button eight inactive state
29	1.2	Zero	63	2.0	Button nine label
30	1.2	Star	64	1.6	Button nine active state
31	1.2	Pound	65	1.6	Button nine inactive stat
32	1.6	Security system	66	2.0	Button zero label
33	1.6	Is violated	67	1.6	Button zero active state
34	2.0	Is not violated	68	1.6	Button zero inactive state

**Table 2: Custom Messages Worksheet**

Message No.	Contents of Message	Voice Message to be Recorded
39	Button one label	
40	Button one active state	
41	Button one inactive state	
42	Button two label	
43	Button two active state	
44	Button two inactive state	
45	Button three label	
46	Button three active state	
47	Button three inactive state	
48	Button four label	
49	Button four active state	
50	Button four inactive state	
51	Button five label	
52	Button five active state	
53	Button five inactive state	
54	Button six label	
55	Button six active state	
56	Button six inactive state	
57	Button seven label	
58	Button seven active state	
59	Button seven inactive state	
60	Button eight label	
61	Button eight active state	
62	Button eight inactive state	
63	Button nine label	
64	Button nine active state	
65	Button nine inactive stat	
66	Button zero label	
67	Button zero active state	
68	Button zero inactive state	

## HomeWorks® Telephone Interface Quick Reference

**Installer: Please fill in the access methods and codes below, and leave this reference with the information that you provide to the customer.**

### Access

The following table summarizes how to access the *HomeWorks* Telephone Interface (HWI-TEL9). Depending upon the installation, different access methods are possible. Your installer should indicate below which methods are possible.

Access Type	Access Instructions	Access Methods Available
Inside phone	Pick up inside phone and enter your 2 to 4 digit Pickup code.	
Outside without answering machine	Call the phone number that the HWI-TEL9 is on. Once the HWI-TEL9 picks up and says "PROCEED", enter your 4 digit Access Code.	
Outside when sharing the line with an answering machine	Call the phone number that the HWI-TEL9 is on. Wait for the answering machine to pick up and begin its greeting message. Enter your 4 digit Access Code. If you experience problems accessing the HWI-TEL9, wait until the greeting message is done playing before entering the Access Code.	
Outside when sharing the line with an outside answering service	Call the phone number that the HWI-TEL9 is on, let the phone ring once, and hang up. Call back within 5 to 30 seconds and the HWI-TEL9 will immediately pick up and say "PROCEED". Enter your 4 digit Access Code.	

### Use

The following table summarizes how to use the HWI-TEL9 after you have successfully accessed it.

Desired Action	From Inside Phone	From Outside Phone
Control a function programmed to one of the HWI-TEL9 buttons	Press desired button number	Press desired button number
Obtain status of a function	Press (*, button number)	Press (*, button number)
Change Pickup Code (For Inside Access)	Press (#, 7) followed by desired 2 to 4 digit code	Not allowed
Change Access Code (For Outside Access)	Press (#, 2) followed by desired 4 digit code	Not allowed
Change Status List (The list that is played upon accessing the HWI-TEL9)	Press (#, 5) followed by: (*, button number) to add to list or (#, button number) to delete from list (#, #) exits Status List Programming	Not allowed
Replay the Status List	Press (*, *)	Press (*, *)

**Pickup Code (inside access)** \_\_\_\_\_

**Access Code (outside access)** \_\_\_\_\_

## Technical and Sales Assistance

If you need assistance, call the toll-free *Lutron Technical Assistance Hotline*. Please provide exact model number when calling.

+1.800.523.9466 (U.S.A., Canada and the Caribbean)

Other countries call:

Tel: +1.610.282.3800

Fax: +1.610.282.3090

Visit our Web site at [www.lutron.com](http://www.lutron.com)

## LIMITED WARRANTY

(Valid only in the U.S., Canada, Puerto Rico, and the Caribbean.)

Lutron will, at its option, repair or replace any unit that is defective in materials or manufacture within two years after purchase. After the two year period, a pro-rated warranty applies to this product until eight years after the purchase. For warranty service, return unit to place of purchase or mail to Lutron at 7200 Suter Rd., Coopersburg, PA 18036-1299, postage pre-paid. Telephone the Lutron Technical Support Center toll free at +1.800.523.9466. For more information regarding this warranty contact your Lutron representative.

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