HSM2955(R)

Audio Alarm Verification Module

Installation Manual 1.0

WARNING: This document contains information on limitations regarding product use and function and information on the limitations as to liability of the manufacturer. The entire manual should be carefully read.

Table of Contents

1. Introduction **3**
1.1 Features 3
1.2 Specifications 3
1.3 Out of the Box 3
2. Installation **4**
2.1 HSM2955(R) Installation 4
2.2 Audio Station Wiring 4
2.3 Enrollment 8
3. Operation **9**
3.1 Audio Capture 9
3.2 Audio Playback 9
3.3 Audio Overwrite/Retain Options 9
3.4 2-way Audio Sessions 10
3.5 2-Way Audio Disconnect Option 10
3.6 Audio Control Telephone Key Functions 11
3.7 Operator Tones 12
4. Programming **12**
4.1 HSM2955(R) Programming 12
5. Programming Worksheets **15**
6. Privacy **18**
7. Consent Form **19**

1. Introduction

This installation manual shall be used in conjunction with the installation manual of the alarm control panel to which the HSM2955(R) is connected. Disconnect power and telephone line before installing the module.

The HSM2955(R) Audio Alarm Verification Module provides 'Talk/Listen-in' capability for the audio verification of alarms as well as up to 4 minutes of audio capture after an alarm event (check with your distributor for availability). The central station can control volume etc. with telephone key presses in accordance with the SIA Audio Verification protocol. The user can also remotely initiate audio monitoring of the premises.

The module mounts in the main control panel cabinet (PC5003C) using existing mounting holes and the 5 stand-offs supplied (see Figure 1: Installation). All programming can be performed at the system keypad or remotely using DLS software (DSC panels only).

1.1 Features

- 2-way audio call-back to support Cellular/Ethernet transmissions.
- 2-way audio support over PSTN.
- On-demand audio playback on the HSM2955R (requested by the central station operator only).
- Records up to 16 seconds of pre-alarm audio capture and up to 4 minutes of programmable post-alarm audio capture (HSM2955R model only).
- 128 zone support for commercial and residential installations.
- Supports up to 4 audio stations (4 microphones and 2 speakers), including tamper detection for each station.

1.2 Specifications

Operating Temperature Range	-10° to 55°C (14° to 131 °F); UL/ULC: 0° - 49°C
Humidity	up to 93% RH, non condensing
Operating Voltage (RED, BLK) from compatible control panel	11.3 to 12.5 VDC (max)
Current Draw (board only)	100mA (max)
Current Draw (active/max stations)	500mA (max with 2 PC5964E connected); 500mA (max with 4 PC5961E connected)
AUX Output	7.6 - 8.6 VDC/400mA
PC5961E (small audio station)	30mA(min) - 100mA (max)
PC5964E (large audio station)	30mA(min) - 190mA (max)
Wiring Distance (all audio stations)	152m (500ft)
Dimensions	21.7cm x 5.3cm (8.55" x 2.075")
Microphone Audio Range:	
PC5961E	7.62m (25ft)
PC5964E	15.2m (50ft)
Compatibility:	
Control Panels	HS2016, HS2032, HS2064, HS2128
Communicators	TL2803GR, TL2803G, 3G2080R, 3G2080, 3G8080(I), CD8080(I)

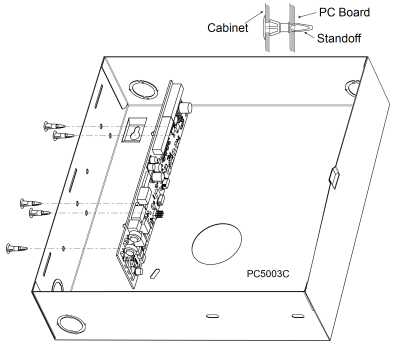
1.3 Out of the Box

The HSM2955(R) kit includes the following:

- 1 HSM2955(R) Audio Verification Module
- 5 Stand-offs
- 1 Audio Header Cable

- 1 HSM2955(R) Installation Manual
- 1 HSM2955(R) User Guide

Figure 1: Installation in the Cabinet



WARNING: HIGH VOLTAGE! Disconnect AC power and telephone lines prior to servicing.

CAUTION! Do not route wiring over the HSM2955 (R) module. Maintain at least 1" (25.4mm) separation. A minimum distance of 1/4"(6.4 mm) must be maintained at all points between power limited and non-power limited wiring. All circuits are classified for UL installations as Power Limited/Class II Power Limited, except for the battery leads which are not power limited. Do not route any wiring over circuit boards.

2. Installation

2.1 HSM2955(R) Installation

The HSM2955 (R) module must be installed by Service Persons only. It must be installed in a metal cabinet properly grounded. It is the installer's responsibility to ensure a degree of protection for the equipment such that no access to the Telecommunications Network Voltage (TNV) circuit is given to the end user. The metallic cabinet must be secured to the building structure before operation. A proper ground connection must be provided for the metal cabinet. Internal wiring must be routed in a manner that prevents:

- excessive strain on wire and on terminal connections
- loosening of terminal connections
- damage to conductor insulation

Follow these steps to install the HSM2955(R) audio interface module and audio stations. Review this section to get an overall understanding of the order of installation. Once this is done, carefully work through each step.

1. Insert the 5 stand-offs provided in the position indicated in Figure 1. The stand-offs will make an audible 'click' when positioned correctly.
2. Position the module over stand-offs, press firmly to ensure that the module locks in place.
3. Wire the module to the control panel, microphones, speakers as required (Figure 2).

Note: Do not use shielded wire on Corbus wire runs. The distributed capacitance of shielded wire can significantly reduce signal quality and range. 22AWG shielded wire is recommended for audio connections only.

4. Program module as required (see section 4 Programming).
5. Verify operation.

2.2 Audio Station Wiring

Up to four audio stations (4 microphones and 2 speakers) can be connected to the HSM2955(R) audio interface module. See compatible combinations below:

- 4 small stations (PC5961E);
- 2 large stations (PC5964E); or
- 1 large and 2 small stations

Each audio station must be home-run to the interface module via 22 gauge, 4-conductor cable. Each audio station can be up to 500ft (152m) from the HSM2955(R).

Connect each station to the audio connections on the HSM2955(R) module as indicated in Alarm Control Panel Wiring Diagram (with Communicator).

Figure 2: Alarm Control Panel Wiring Diagram (with Communicator)

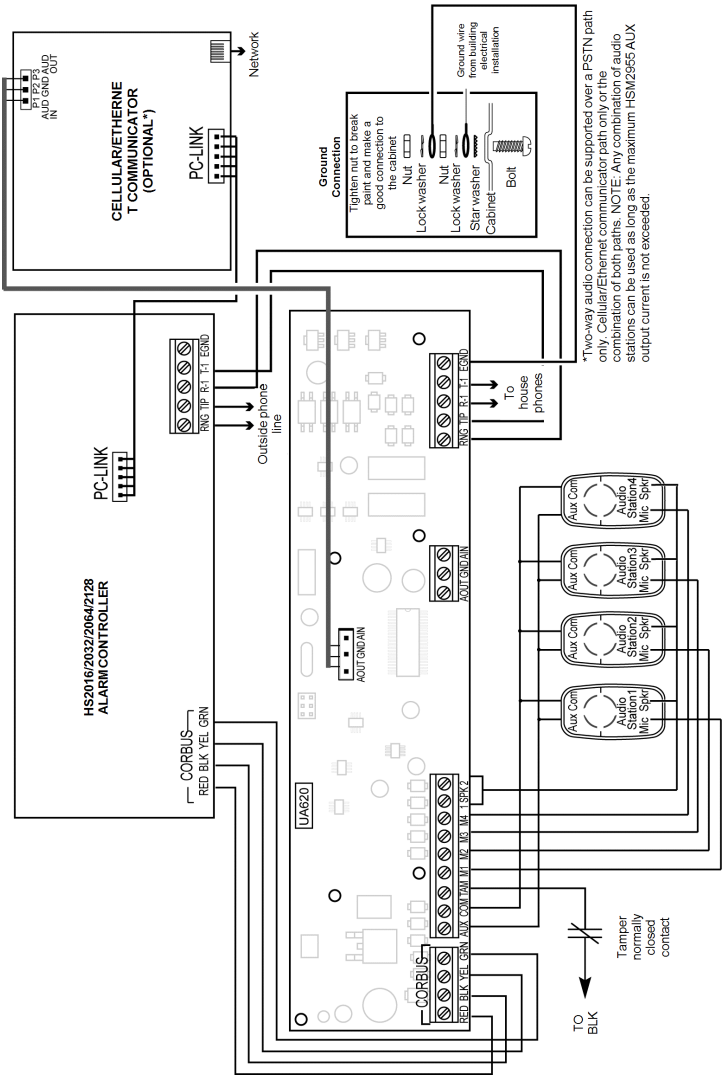
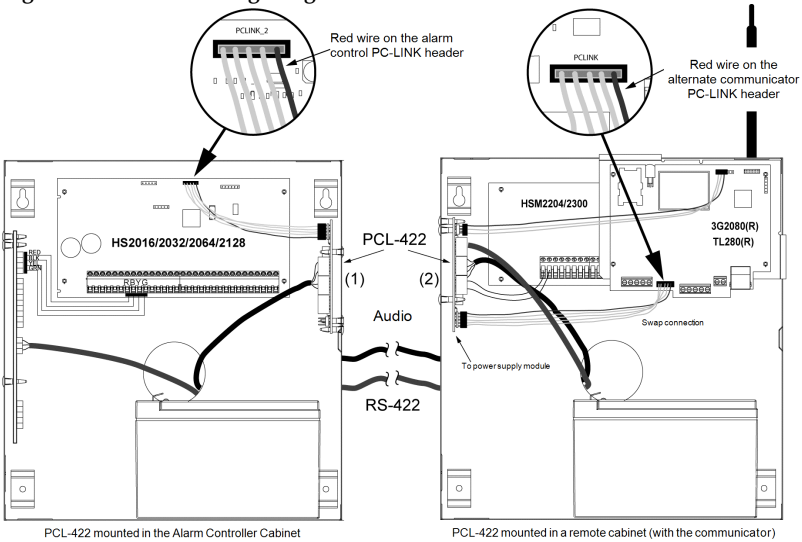


Figure 3: PCL-422 Wiring Diagram



HSM2955		PCL-422 (2)
AOUT	—	OUT
GND	—	GND
AIN	—	AIN

Refer to the PCL-422 Installation Sheet (part no. 29008859) for more details.

Figure 4: Alternate Wiring Diagram (Separate Cabinet Configuration)

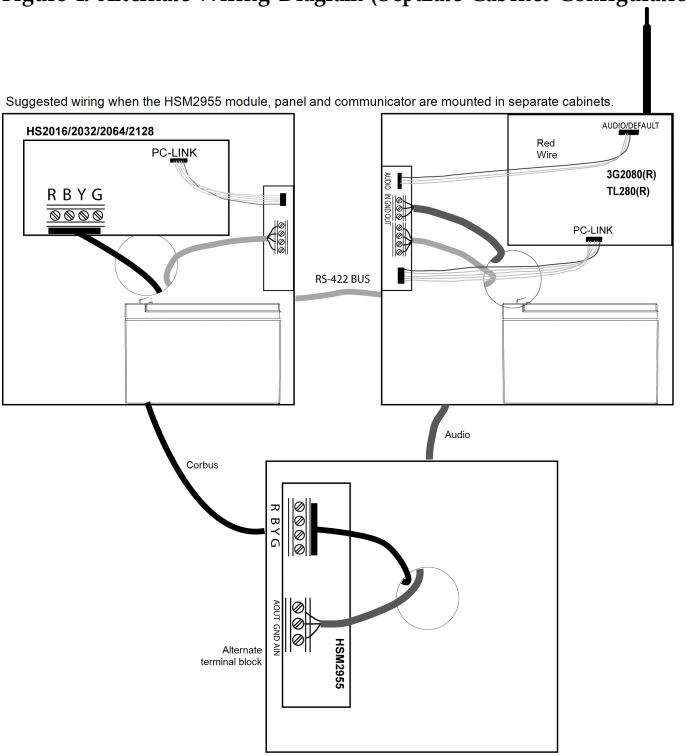


Figure 5: 3G8080(I)/CD8080(I) Wiring Connections

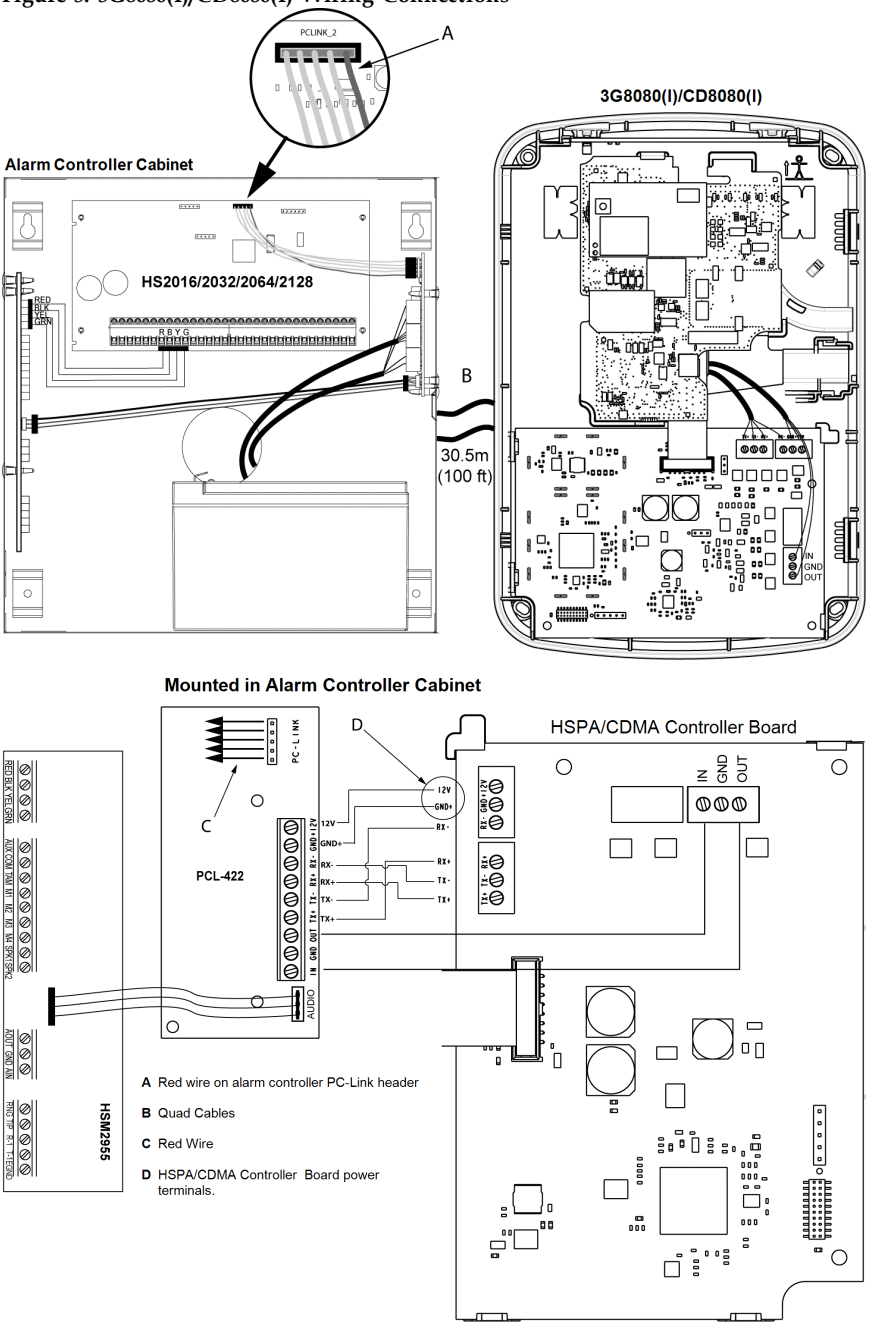
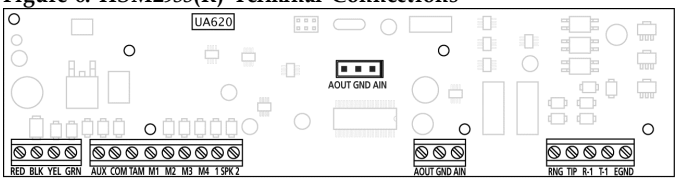


Figure 6: HSM2955(R) Terminal Connections



Corbus	RED	Corbus Power
	BLK	Corbus Ground
	YEL	Corbus Com A
	GRN	Corbus Com B
AUX Power	AUX	Auxiliary Power Output (PTC protected locally). **Note:** Output current is limited by the available current at the panel AUX/RED output (refer to the Panel Installation Manual).
	COM	Common Ground terminal for station wiring
Tamper	TAM	HSM2955 Module Tamper Input
Speaker/Mic	M1	Microphone #1 (M1) Input Channel
	M2	Microphone #2 (M2) Input Channel
	M3	Microphone #3 (M3) Input Channel
	M4	Microphone #4 (M4) Input Channel
Speakers	SPK1	Speaker Level Output (supports two DSC Audio Stations)
	SPK2	Speaker Level Output (supports two DSC Audio Stations) NOTE: SPK1 and SPK2 are parallel wired from a single audio output. Any combination of audio stations can be used as long as the maximum current rating is not exceeded: - 4 small stations (PC5961E) - 2 large stations (PC5964E) - 1 large & 2 small stations
Audio	AOUT	Audio Out
	GND	Ground
	AIN	Audio In **Note:** This is an alternate terminal block. See Figure 4 for use.
Phone Line	RNG	Connected to R-1 terminal on the alarm panel
	TIP	Connected to T-1 terminal on the alarm panel
	R-1	Connected to house phones
	T-1	Connected to house phones
Ground	EGND	Earth Ground for Telco circuit

2.3 Enrollment

The HSM2955(R) audio verification module can be automatically or manually enrolled at the panel keypad. See below for enrollment options.

Automatic Enrollment - Enter section [902] and press [000][*] to automatically enroll all new modules.

Manual Enrollment - To manually enroll the HSM2955(R) enter section [902] then select [001][*]. When prompted, enter the serial number found on the device. An error tone sounds if an invalid serial number is entered. The serial number and slot assignment is displayed when the module has been enrolled successfully.

Confirm Enrollment - To confirm enrollment, enter section [903] then select [108][*].

Delete - Enter [902][108][*] to remove the HSM2955(R) module from the system.

Labels - Enter [000][808][*] to customize the module label. See the Alarm Panel Installation Manual for more details.

3. Operation

The HSM2955(R) module is intended to be used only with the HS2016, HS2032, HS2064, HS2128 alarm controllers. The module can be directly programmed from the system keypad by entering [*][8][Installer Code][802] followed by the associated section numbers found in Section 4 of this manual.

3.1 Audio Capture

The HSM2955(R) module records audio before the alarm condition/trigger and programmable up to 4 minutes after the alarm/trigger condition. Once an alarm condition/trigger has occurred, the module continues to record until a connection to the monitoring station is established. The module starts a new recording once the central station has listened to the recording and hung up and/or terminated the session with [*][099]. The audio module combines recordings from all enabled stations into one audio file. Note: Please check with the distributor for availability.

Pre-Alarm Audio Capture

The HSM2955(R) module is continuously recording audio. The module retains up to 16 seconds of recording preceding an alarm condition or trigger. All stations with recording enabled will contribute to the saved file.

Post-Alarm Audio Capture

The module starts recording when a 2-way audio enabled event occurs. The duration for the audio recording can be programmed in section [616]. The recording is saved until another audio overwrite condition occurs. All stations with record enabled will contribute to the saved file.

Subsequent Alarm Audio Capture

Subsequent alarm conditions/triggers do not overwrite the recorded audio until after the recording has been listened to by the monitoring station or if another audio overwrite condition occurs.

Note: The alarm in memory may not represent the most recent alarm.

Note: An Entry Delay does not initiate a post alarm recording.

3.2 Audio Playback

When the operator enters [*][1][6] the HSM2955(R) module will play back up to 16 seconds of the pre-alarm audio followed by up to 4 minutes of the post-alarm audio. Once the playback has completed, the module will sound the end tone and return to "Talk to All Stations" mode. Note for Panic and Duress alarms, the module will return to "Listen to All Stations".

Note: The central station operator cannot terminate playback, the entire audio file must be played.

3.3 Audio Overwrite/Retain Options

Once an audio overwrite event occurs, a new recording is saved over the existing audio. Possible audio overwrite events:

- Once playback is complete and the central station operator enters [99] to disconnect or hangs up after playback.
- When the programmable overwrite timer has been set
- If an alarm is canceled with a valid access code during a transmission delay.
- If playback is complete and the operator enters [88] to disconnect and enables the callback window, the audio is saved.

3.4 2-way Audio Sessions

Audio verification session via PSTN

If an event programmed for 2-way audio occurs, the panel will send a 2-way audio initiating signal to the central station. The HSM2955(R) will then begin the 2-way audio session via the PSTN line. A tone is sent to the central station to indicate the 2-way audio session has started.
The 2-way audio session duration is 90 seconds.
Note: For UL/ULC listed installations the maximum duration of the 2-way audio session shall not exceed 30 seconds.

Audio verification session via Cellular/Ethernet callback

If an event programmed for 2-way audio occurs, the panel will send a 2-way audio initiating signal to the central station via the Cellular/Ethernet communicator. The call-back telephone number is programmed using the communicator and sent with the alarm signal to the central station. Either the Cellular or PSTN telephone number can be used. Once the central station operator calls the telephone number, a tone is sent to the central station to indicate the 2-way audio session has started.
Note: If using the 3G8080(I)/CD8080(I), the central station is called directly.

Audio verification session single alarm via one phone number

If an event programmed for 2-way audio occurs, the control panel communicates the alarm to Phone #1, and the 2-way audio session is initiated immediately.

Audio verification session during 2-way audio session via one phone number

If a second alarm occurs during a 2-way audio session, the module will follow the disconnect option selected (Section [022] Option 6). If enabled, the module will not end the 2-way audio session to transmit the next alarm. If disabled, the module will disconnect the session and send the next alarm event.

Audio verification session alarm with two paths/redundant communications

When the redundant communications option is enabled, the 2-way session is assigned to the first receiver programmed for 2-way audio. If PSTN and cellular communications are used for 2-way audio, a 3-way connection between 2 operators and the HSM2955 module can be started. If another alarm is triggered, the panel will transmit the events and audio based on the option programmed for 2-Way Audio Disconnect (Section [022] Option 6) through the alarm panel.

Audio Verification session alarm with two paths/parallel communications

When the parallel communications option is enabled, the 2-way audio event will be sent to all paths with 2-way audio enabled. The connection will be established with the first receiver that responds. If PSTN and cellular communications are used for 2-way audio, a 3-way connection between 2 operators and the HSM2955 module can be started.

3.5 2-Way Audio Disconnect Option

This section is accessed through the alarm panel, Section [022] Option 6. When this option is ON the system will maintain the 2-way audio session if a new alarm occurs. When this option is OFF, the 2-way audio session will be disconnected immediately when a new alarm is generated.
Note: This option applies to new events only. All non-alarm events (except Fire Troubles) are communicated after the 2-way audio session has ended.

Note: For UL/ULC Listed installations the disconnect option must be turned OFF so any new alarm event will have priority over the 2-way audio session.

3.6 Audio Control Telephone Key Functions

HSM2955(R) functions are controlled using the [*] key during a telephone session as per the SIA Audio Verification Standard. Enter [*] followed by [0] or [1] to select a level (see below), followed by the 1- or 2-digit key number of the desired action. If programmed, the alarm and talk/listen options can occur from any partition on the system.

Note: When an audio verification session has been initiated, the module is in 'line hold' mode and waits for the operator to press a touch-tone digit (only when Manual Bell Shut-off is selected).

Note: Use the disconnect key [99] or [88] to terminate a session before hanging up.

Level 0 Audio Commands

Entering [*][0] followed by [0] - [7], [88] or [99] selects the following options:

[0]	**Future Use**
[1]	**High Gain Talk-to-All** - Connects the central monitoring station to all speakers at high volume level.
[2]	**2-way VOX** - Connects the central station to all speakers and all active microphones. An internal voice switch automatically switches between "Listen" and "Talk" modes.
[3]	**High Gain Listen to all active Microphones** - Connects the central station to all active microphones at high volume level.
[4]	**Low Gain Talk-to-All** - Connects the central station to all speakers at low volume level.
[5]	**Future Use**
[6]	**Low Gain Listen to all active Microphones** - Connects the central station to all active microphones at low volume level.
[7]	**Extend Time** - Restarts the session timer to prevent time-out.
[88]	**Disconnect with Call-back Window** - Disconnects the session then starts the call-back window (if programmed) to allow the central station to resume the session later. **Note:** The second '8' must be pressed within 1 second of pressing the first '8'.
[99]	**Disconnect** - Terminates the session without the call-back window. The second '9' must be pressed within 1 second of pressing the first '9'.

Level 1 Audio Commands

Entering [*][1] followed by [0] - [9] selects the following options:

[0]-[1]	**Future Use**
[2]	**Microphone Select** - Enter 0 - 5 to toggle (enable or disable depending on the previous state) the associated microphone. This allows the central station operator to deselect undesirable microphone inputs. Selecting 0 turns all inputs off. Selecting 5 turns all inputs on. Selecting 1 - 4 toggles the corresponding microphone.
[3]	**Zone Select 001 - 128** - Enter a 3-digit zone number (001-128) after entering this key to activate a microphone input associated with the zone for a listen-in session. If the selected zone does not have microphone input, the function is canceled and the module reverts to the previous state.

[4]	**Increment Selected Microphone** -Selects the next enabled microphone in the sequence.
[5]	**Decrement Selected Microphone** - Selects the previous enabled microphone in the sequence.
[6]	**Audio Capture Playback** - Plays back up to 16 seconds of pre-alarm audio followed by 105 seconds to 4 minutes of post-alarm audio, programmed in Section [616]. The module will sound the end tone and return to "Talk to All Stations" mode. **Note:** The central station cannot terminate the playback, the entire audio must be played.
[7]-[9]	**Future Use**

3.7 Operator Tones

The tones generated by the HSM2955(R), while in two-way, are as follows:
Start Tone (3 high tones) - Sounds when audio session begins.
End Tone (3 high tones) - Sounds when audio session ends.
Subsequent Alarm Tone (alternating high-low-high-low tone) - indicates a new alarm during an audio session, it is generated once per session. This tone will only sound if Section [022] Option 6 is enabled. If disabled the session is disconnected.
Subsequent Fire Alarm Tone (high-low-high tone) - indicates a fire alarm during a 2-way audio session. This tone will only sound if Section [022] Option 6 is enabled and will be generated for each subsequent fire alarm event. If disabled the session is disconnected.
20-second reminder tone (1 high tone) - 20 seconds remaining in the audio session.
10-second reminder tone (1 low tone) - 10 seconds remaining in the audio session.
1 Beep - Audio Capture playback has ended.

4. Programming

4.1 HSM2955(R) Programming

If programming the HSM2955(R) via DLS, select HSM2955(R) for the correct programming options. If programming from the panel, enter [*][8][Installer Code][802] on the system keypad followed by the 3-digit sub-section (listed below) to program options.

[001]-[128] Zone Station Assignment

The 2-way audio stations can be assigned to zones 001-128. If station 1 is assigned to zone 001 and an alarm occurs, station 1 will activate. The central station operator can listen and talk using station 1 and is able to play audio through a PSTN or cellular connection.

[600] 2-Way Audio Trigger Options

The options below initiate a 90 second 2-way audio session with the central monitoring station. An audio recording is also initiated if Audio Capture [605] is enabled.

1	Tampers enabled	5	Duress alarm enabled (Listen)
2	Future Use	6	Opening After Alarm enabled
3	Medical Key alarm enabled	7	Future Use
4	Panic Key alarm enabled (Listen)	8	Zone Expander Supervision alarm

[603] 2-Way Audio Control Options

The following options are programmable for the 2-way audio session:

1 Future Use

2 **Listen To All Zones When Online** - when 2-way audio starts, the central station operator will listen in to all zones, then can choose to listen to specific audio stations using the DTMF keys.
Listen Only to Zones In Alarm - when 2-way audio starts the central station operator listens only to zones in alarm. The operator can still listen in on all zones using the DTMF keys.

3 **Future Use**

4 **Siren Active During 2-way Audio** - The siren can be enabled or disabled during the 2-way audio session. When disabled, the siren is turned off during a 2-way audio session; it will re-activate when the 2-way session ends if Bell Time-out has not occurred. This option must be enabled for UL/ULC Installations.

5 **Hang-up Auto-Detect Enabled/Disabled** - Initiates a call-back window (programmed in [610]) if the central station receiver hangs up on the 2-way audio session.

6 **User Call-in Enabled/Disabled** - Allows a user to call using the audio module and initiate and 2-way voice session.

7 **Future Use**

8 **2-way Audio Session Initiated by Central Station/2-way Audio Session is Immediate** - If enabled, the central station operator can initiate a 2-way audio session by pressing any DTMF key. If disabled, the 2-way session will begin automatically after the audio event.

[605] Audio Capture Control Options

1 **Audio Capture Enabled/Disabled** - Enables the module to record pre-alarm and post-alarm audio. When disabled audio is not recorded from enabled audio stations.

2 **Audio Overwrite Follows FTC/Audio Overwrite Follows Overwrite Timer** - Controls whether the audio recorded to memory can be erased after an FTC of a 2-way audio event has ended or following the Overwrite Timer programmed in section [617]. Future alarms will not overwrite captured audio until it has been played back for the central station or if an audio overwrite condition has been met.

[606] Audio Station Record Control Options

This section controls which audio stations (1-4) are included in the recorded file. The audio from enabled stations is combined to one audio file for playback.

[610] Call Back/Recovery Window Duration

The duration of time that the central station receiver is able to call back the panel in the event of a dropped phone line. See section [603], Option [5]. Valid entries are 01-09 minutes, 00 to disable.

[611] Call Back Acknowledge Code

This code must be entered by the central monitoring station operator when calling during the call back recovery window. If a valid code is entered, 2-way audio is initiated. If an invalid code is entered an error tone is generated. Valid entries are 000000-999999 when 6-digit codes are programmed and 0000-9999 for 4-digit codes.

[612] Answering Machine Bypass

If a home answering machine is enabled, the user can call using the Double-call option to connect to the module and initiate a 2-way audio session. After hearing the number

of rings programmed, hang up the line and re-dial after a minimum of 6 seconds. The module is connected on the second call. Valid entries 01-09 (number of rings), 00 to disable.

Note: Program this section with a value greater than 2 for DLS Double-call support.

[613] Answering Machine Bypass Double-call Timer

This is the duration between 2 calls when using the Answering Machine Bypass. The second call should be made within the programmed time or answering machine bypass is canceled. Valid entries 00-99 seconds.

[614] Number of Rings to Answer On

Allows the module to answer on a programmed number of rings. This option cannot be enabled if an answering machine is installed. Valid entries 01-09, 00 to disable.

[615] Audio Duration

The maximum duration of the 2-way audio session. Valid entries are 01-99 seconds.

Note: For UL/ULC listed installations the maximum duration of the 2-way audio session with the central station (when using PSTN path) shall be limited to 30 seconds.

[616] Post Alarm Audio Capture Length

This programs the recording time for an event after an alarm condition has been met.

[617] Audio Capture Overwrite Timer

Programs the amount of time after a recorded event that the module begins recording over an existing audio file.

[618] - [619] For Future Use

[620] Audio Station Tamper Options

Enables or disables audio tampers for 4 speakers/microphones. Default is disabled.

[998] For Future Use

[999] HSM2955(R) Factory Default Programming

This section restores all programming in the HSM2955(R) Audio Verification Module to the factory defaults. Enter [999][Installer Code][999] or [*] to default the module.

5. Programming Worksheets

[001]-[128] Zone Station Assignment

Zone	Audio Station (00-04)	Zone	Audio Station (00-04)	Zone	Audio Station (00-04)	Zone	Audio Station (00-04)
1	|____|____|	33	|____|____|	65	|____|____|	97	|____|____|
2	|____|____|	34	|____|____|	66	|____|____|	98	|____|____|
3	|____|____|	35	|____|____|	67	|____|____|	99	|____|____|
4	|____|____|	36	|____|____|	68	|____|____|	100	|____|____|
5	|____|____|	37	|____|____|	69	|____|____|	101	|____|____|
6	|____|____|	38	|____|____|	70	|____|____|	102	|____|____|
7	|____|____|	39	|____|____|	71	|____|____|	103	|____|____|
8	|____|____|	40	|____|____|	72	|____|____|	104	|____|____|
9	|____|____|	41	|____|____|	73	|____|____|	105	|____|____|
10	|____|____|	42	|____|____|	74	|____|____|	106	|____|____|
11	|____|____|	43	|____|____|	75	|____|____|	107	|____|____|
12	|____|____|	44	|____|____|	76	|____|____|	108	|____|____|
13	|____|____|	45	|____|____|	77	|____|____|	109	|____|____|
14	|____|____|	46	|____|____|	78	|____|____|	110	|____|____|
15	|____|____|	47	|____|____|	79	|____|____|	111	|____|____|
16	|____|____|	48	|____|____|	80	|____|____|	112	|____|____|
17	|____|____|	49	|____|____|	81	|____|____|	113	|____|____|
18	|____|____|	50	|____|____|	82	|____|____|	114	|____|____|
19	|____|____|	51	|____|____|	83	|____|____|	115	|____|____|
20	|____|____|	52	|____|____|	84	|____|____|	116	|____|____|
21	|____|____|	53	|____|____|	85	|____|____|	117	|____|____|
22	|____|____|	54	|____|____|	86	|____|____|	118	|____|____|
23	|____|____|	55	|____|____|	87	|____|____|	119	|____|____|
24	|____|____|	56	|____|____|	88	|____|____|	120	|____|____|
25	|____|____|	57	|____|____|	89	|____|____|	121	|____|____|
26	|____|____|	58	|____|____|	90	|____|____|	122	|____|____|
27	|____|____|	59	|____|____|	91	|____|____|	123	|____|____|
28	|____|____|	60	|____|____|	92	|____|____|	124	|____|____|
29	|____|____|	61	|____|____|	93	|____|____|	125	|____|____|
30	|____|____|	62	|____|____|	94	|____|____|	126	|____|____|
31	|____|____|	63	|____|____|	95	|____|____|	127	|____|____|
32	|____|____|	64	|____|____|	96	|____|____|	128	|____|____|

Note: A zone must have a microphone assigned to it to enable 2-way audio for the respective zone alarm. Entering 00 will disable 2-way audio for that zone.

[600] 2-Way Audio Trigger Options

Opt	ON		OFF
1	☐	Tampers Enabled	☑ Disabled
2	☐	Future Use	☑ Disabled
3	☑	[M] Key Alarm Enabled	☐ Disabled
4	☑	[P] Key Alarm Enabled (Listen)	☐ Disabled
5	☑	Duress Alarm Enabled (Listen)	☐ Disabled
6	☑	Opening After Alarm Enabled	☐ Disabled
7	☐	Future Use	☑ Disabled
8	☐	Zone Expander Supervision Alarm	☑ Disabled

[603] 2-Way Audio Control Options

Opt	ON		OFF
1	☐	Future Use	☑ Future Use
2	☑	Listen To All Zones When On-line	☐ Listen Only to Zones in Alarm
3	☐	Future Use	☑ Future Use
4	☐	Siren Active in 2-way Audio*	☑ Disabled
5	☐	Hang-up Auto-Detect Enabled	☑ Disabled
6	☐	User Call-in Enabled	☑ Disabled
7	☐	Future Use	☑ Disabled
8	☐	2-Way Audio Initiated by Central Station	☑ 2-Way Audio Session is Immediate

*This option must be ON for UL listed installations.

[605] Audio Capture Control Options

Opt	ON		OFF
1	☑	Audio Capture Enabled	☐ Disabled
2	☐	Audio Overwrite Follows FTC	☑ Follows Overwrite Timer
3	☐	Future Use	☑ Future Use

[606] Audio Station Record Control Options

Opt	ON		OFF
1	☑	Audio Station 1 Record Enabled	☐ Disabled
2	☑	Audio Station 2 Record Enabled	☐ Disabled
3	☑	Audio Station 3 Record Enabled	☐ Disabled
4	☑	Audio Station 4 Record Enabled	☐ Disabled

[610] Call Back/Recovery Window Duration

Def 05 |_____|_____| Minutes
Valid entries are 00-09, 00 to disable.

[611] Call Back Acknowledge Code

Default 999999 |____|____|____|____|____|____|
Valid entries are 000000 - 999999 (0000-9999 when 4-digit codes are programmed).

[612] Answering Machine Bypass

Default 00 |_____|_____| Number of rings. Valid entries are 00-09, 00 to disable.
Note: A minimum 6-second delay is required before call-back
Note: For DLS double-call support program a value greater than 02.

[613] Answering Machine Bypass Double-call Timer

Default 30 |_____|_____|Valid entries are 00-99 seconds.

[614] Number of Rings to Answer On

Default 00 |_____|_____| Valid entries are 00-09 rings, 00 to disable.

[615] Audio Duration

Default 90 |_____|_____| Valid entries are 01-99 seconds.

[616] Post Alarm Audio Capture Length

Default 105 |_____|_____|____| Valid entries are 105 - 240 seconds.

[617] Audio Capture Overwrite Timer

Default 15 |_____|_____|____|Valid entries are 05 - 30 minutes.

[620] Audio Station Tamper Options

Opt	ON		OFF
1		Audio Station 1 Tamper Enabled	✓ Disabled
2		Audio Station 2 Tamper Enabled	✓ Disabled
3		Audio Station 3 Tamper Enabled	✓ Disabled
4		Audio Station 4 Tamper Enabled	✓ Disabled
5-8		Future Use	

[999] HSM2955(R) Factory Default Programming

Default 999 |_____|_____|____| Valid entries are [*] or 999.

6. Privacy

The HSM2955(R) / HSM2955(R) module was designed to adhere to applicable privacy regulations and only processes data needed for the primary functionality of the device. Before using the module you will be asked to provide consent with processing of the personal data that the module may capture. Note that the module records audio to secure the best functionality of the device. The recordings are processed securely and automatically erased on a periodic basis. Based on the location of the module you may have the obligation to issue a notice about using it. The data recorded through the HSM2955(R) module are processed and maintained primarily by the data controller. Data controller is the entity that provides [monitoring] services to you. You have the right to enquire about your data with them. For more information about their privacy practices please contact the data controller/monitoring service provider. For more details about Tyco privacy practices please visit our website http://www.tyco.com/privacy. Please refer to Section 7 for a consent form template. Please note this is only a guideline, contact the data controller regarding their privacy practices.

7. Consent Form

CONSENT WITH PROVIDING PERSONAL DATA / SENSITIVE PERSONAL DATA
Data Subject[1]
First name: _____ Last name: _____

Residing at: _____ I hereby grant an informed consent to allow _____ and its affiliates (hereinafter the "Company") to process my personal data [ ][2]/ sensitive personal data [ ][3] for the purpose specified below. I also consent to the data being transferred to third parties and abroad, if that is necessary for the Company to fulfill the purpose of data collection as described below, in accordance with applicable data privacy laws.
Personal Data collected: _____ (include specific data fields)
Sensitive Personal Data collected: _____ (include specific data fields)
The data is collected for the purpose of _____
_____
_____ (describe in reasonable detail)

I have been informed about my rights related to the processing of personal data and about other conditions related to the processing of personal data and to the method of its processing and accessing. I certify that all the personal data is accurate and true and provided voluntarily. I have been informed about my right to access and check my personal data processed by the Company upon request sent to _____. I am aware I can withdraw this consent in writing at any time.
CONTENT AND PURPOSE OF THIS CONSENT EXPLAINED BY

Full name: _____

Signature: _____

Contact detail: _____
To learn more about the Data Controller's privacy practices visit/email:

Date: _____

Data subject signature: _____

[1] Data Subject is the person to whom the personal data relates to.
[2] Personal data is any information relating to an identified or identifiable individual, such as name, email or other addresses, phone number, ID numbers, employment data (such as salary or evaluations), mother's maiden name, credit card number or credit information etc.
[3] Sensitive personal data is personal data consisting of information as to the racial or ethnic origin of the individual, their political opinions, religious beliefs, physical or mental health or condition, sexual life etc.

Limited Warranty

Digital Security Controls (DSC) warrants that for a period of 12 months from the date of purchase, the product shall be free of defects in materials and workmanship under normal use and that in fulfilment of any breach of such warranty, DSC shall, at its option, repair or replace the defective equipment upon return of the equipment to its repair depot. This warranty applies only to defects in parts and workmanship and not to damage incurred in shipping or handling, or damage due to causes beyond the control of DSC such as lightning, excessive voltage, mechanical shock, water damage, or damage arising out of abuse, alteration or improper application of the equipment. The foregoing warranty shall apply only to the original buyer, and is and shall be in lieu of any and all other warranties, whether expressed or implied and of all other obligations or liabilities on the part of DSC. Digital Security Controls neither assumes responsibility for, nor authorizes any other person purporting to act on its behalf to modify or to change this warranty, nor to assume for it any other warranty or liability concerning this product. In no event shall DSC be liable for any direct, indirect or consequential damages, loss of anticipated profits, loss of time or any other losses incurred by the buyer in connection with the purchase, installation or operation or failure of this product. WARNING: DSC recommends that the entire system be completely tested on a regular basis. However, despite frequent testing, and due to, but not limited to, criminal tampering or electrical disruption, it is possible for this product to fail to perform as expected. Important Information: Changes/modifications not expressly approved by DSC could void the user's authority to operate this equipment.

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WARNING: DSC recommends that the entire system be completely tested on a regular basis. However, despite frequent testing, and due to, but not limited to, criminal tampering or electrical disruption, it is possible for this SOFTWARE PRODUCT to fail to perform as expected.

FCC STATEMENT

CAUTION: Changes or modifications not expressly approved by Digital Security Controls could void your authority to use this equipment.

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 and used 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:

- Re-orient 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 dealer or experienced radio/television technician for help.

The user may find the following booklet prepared by the FCC useful: 'How to Identify and Resolve Radio/Television Interference Problems'. This booklet is available from the U.S. Government Printing Office, Washington D.C. 20402, Stock # 004-000-00345-4.

IMPORTANT INFORMATION

This equipment complies with Part 68 of the FCC Rules and the requirements adopted by the ACTA. On the side of this equipment is a label that contains, among other information, a product identifier in the format US:AAAEQ##TXXXX. If requested, this number must be provided to the Telephone Company.

Product identifier: US: F53MO01BHSM2955

USOC Jack: RJ-31X

Telephone Connection Requirements

A plug and jack used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by the ACTA. A compliant telephone cord and modular plug is provided with this product. It is designed to be connected to a compatible modular jack that is also compliant. See installation instructions for details.

Ringer Equivalence Number (REN)

The REN is used to determine the number of devices that may be connected to a telephone line. Excessive RENs on a 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. For products approved after July 23, 2001, the REN for this product is part of the product identifier that has the format

US: AAAEQ##TXXXX. The digits represented by ## are the REN without a decimal point (e.g., 03 is a REN of 0.3). For earlier products, the REN is separately shown on the label.

Incidence of Harm

If this equipment HSM2955 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.

Changes in Telephone Company Equipment or Facilities

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

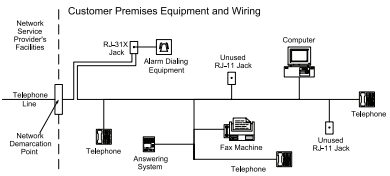
Equipment Maintenance Facility

If trouble is experienced with this equipment HSM2955, contact the facility indicated below for repair or warranty information. If the equipment is causing harm to the telephone network, the Telephone Company may request that you disconnect the equipment until the problem is solved. This equipment is of a type that is not intended to be repaired by the end user. DSC c/o APL Logistics, 757 Douglas Hill Rd., Lithia Springs, GA30122, USA

Additional Information

Connection to party line service is subject to state tariffs. Contact the state public utility commission, public service commission or corporation commission for information.

Alarm dialing equipment must be able to seize the telephone line and place a call in an emergency situation. It must be able to do this even if other equipment (telephone, answering system, computer modem, etc.) already has the telephone line in use. To do so, alarm dialing equipment must be connected to a properly installed RJ-31X jack that is electrically in series with and ahead of all other equipment attached to the same telephone line. Proper installation is depicted in the figure below. If you have any questions concerning these instructions, you should consult your telephone company or a qualified installer about installing the RJ-31X jack and alarm dialing equipment for you.



IC: 160A -HSM2955

CAN ICES-3 (B)/NMB-3(B)

NOTICE: This equipment meets the applicable Industry Canada Terminal Equipment Technical Specifications. This is confirmed by the registration number. The abbreviation, IC, before the registration number signifies that registration was performed based on a Declaration of Conformity indicating that Industry Canada technical

specifications were met. It does not imply that Industry Canada approved the equipment.

NOTICE: The Ringer Equivalence Number (REN) for this terminal equipment is 0.1. The REN assigned to each terminal equipment 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.

AVIS: Le présent matériel est conforme aux spécifications techniques d'Industrie Canada applicables au matériel terminal. Cette conformité est confirmée par le numéro d'enregistrement. Le sigle IC, placé devant le numéro d'enregistrement, signifie que l'enregistrement s'est effectué conformément à une déclaration de conformité et indique que les spécifications techniques d'Industrie Canada ont été respectées. Il n'implique pas qu'Industrie Canada a approuvé le matériel.

AVIS : L'indice d'équivalence de la sonnerie (IES) du présent matériel est de 0.1. L'IES assigné à chaque dispositif terminal indique le nombre maximal de terminaux qui peuvent être raccordés à une interface téléphonique. La terminaison d'une interface peut consister en une combinaison quelconque de dispositifs, à la seule condition que la somme d'indices d'équivalence de la sonnerie de tous les dispositifs n'excède pas 5.

Hereby, DSC, declares that this device is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

The complete R&TTE Declaration of Conformity can be found at http://www.dsc.com/listings_index.aspx

(CZE) DSC jako výrobce prohlašuje, že tento výrobek je v souladu se všemi relevantními požadavky směrnice 1999/5/EC.

(DAN) DSC erklærer herved at denne komponenten overholder alle viktige krav samt andre bestemmelser gitt i direktiv 1999/5/EC.

(DUT) Hierbij verklaart DSC dat dit toestel in overeenstemming is met de eisen en bepalingen van richtlijn 1999/5/EC.

(FIN) DSC vakuuttaa laitteen täyttävän direktiivin 1999/5/EC olennaiset vaatimukset.

(FRE) Par la présente, DSC déclare que ce dispositif est conforme aux exigences essentielles et autres stipulations pertinentes de la Directive 1999/5/EC.

(GER) Hierdurch erklärt DSC, daß dieses Gerät den erforderlichen Bedingungen und Vorrausetzungen der Richtlinie 1999/5/EC entspricht.

(GRE) Δια του παρόντος, η DSC, δηλώνει ότι αυτή η συσκευή είναι σύμφωνη με τις ουσιώδης απαιτήσεις και με όλες τις άλλες σχετικές αναφορές της Οδηγίας 1999/5/EC.

(ITA) Con la presente la Digital Security Controls dichiara che questo prodotto è conforme ai requisiti essenziali ed altre disposizioni rilevanti relative alla Direttiva 1999/05/CE.

(NOR) DSC erklærer at denne enheten er i samsvar med de grunnleggende krav og øvrige relevante krav i direktiv 1999/5/EF.

(POL) DSC oświadcza, że urządzenie jest w zgodności z zasadniczymi wymaganiami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/WE.

(POR) Por este meio, a DSC, declara que este equipamento está em conformidade com os requisitos essenciais e outras determinações relevantes da Directiva 1999/5/EC.

(SPA) Por la presente, DSC, declara que este equipo está en conformidad con los requisitos esenciales y otros requisitos relevantes de la Directiva 1999/5/EC.

(SWE) DSC bekräftar härmed att denna apparat uppfyller de väsentliga kraven och andra relevanta bestämmelser i Direktivet 1999/5/EC.

CE

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DSC

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