# *AV Module*
# Installation Instructions

## Introduction

The Audio Verification (AV) module can be used to verify the presence of an intruder at the protected premises after alarm activation. Up to a maximum of 16 Remote Microphone Units (*RMU*) can be connected to the module which can be controlled via a touch-tone telephone. The *AV Module* is supported by the following Texecom control panels:

- *Premier 88* (Must be fitted with software version 5.1 or higher)
- *Premier 168*(Must be fitted with software version 5.1 or higher)

## PCB Layout and Connections

The figure below shows the PCB layout of the *AV Module*:

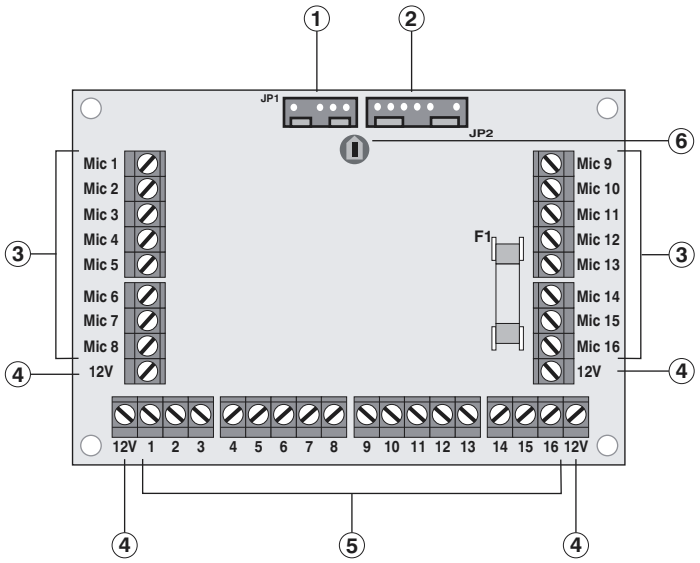


**Figure 1. *AV Module* PCB Layout**

① Audio Port (JP1) - Connect to *Com2400* Audio Port (JP3)

② Control Port (JP2) - Connect to control panel Expansion Port (JP7).

③ Microphone Inputs.

④ 12V Supply Output (protected by fuse F1).

⑤ Outputs 1 to 16 (switched to 0V @100mA).

⑥ Audio Output volume level adjustment.

## *AV Module* Installation

Ensure that all power is removed from the control panel before connecting the *AV Module*.

**1)** Fix the *AV Module* (see Figure 2) to the base of the control panel using four self adhesive feet supplied with the unit.

**2)** Plug one end of the audio lead "A" (see Figure 2) onto JP1 of the *AV Module* and the other end onto JP3 of the *Com2400*.

**3)** Plug one end of the control lead "B" (see Figure 2) onto JP2 of the *AV Module* and the other end onto JP7 of the *Premier 88*/*168*.

**4)** Connect the Remote Microphone Units (*RMU*) to the *AV Module* (see Connecting *RMU's* to an *AV Module*).

**5)** Connect the tamper circuit from the *RMU's* to the auxiliary tamper on the control panel.

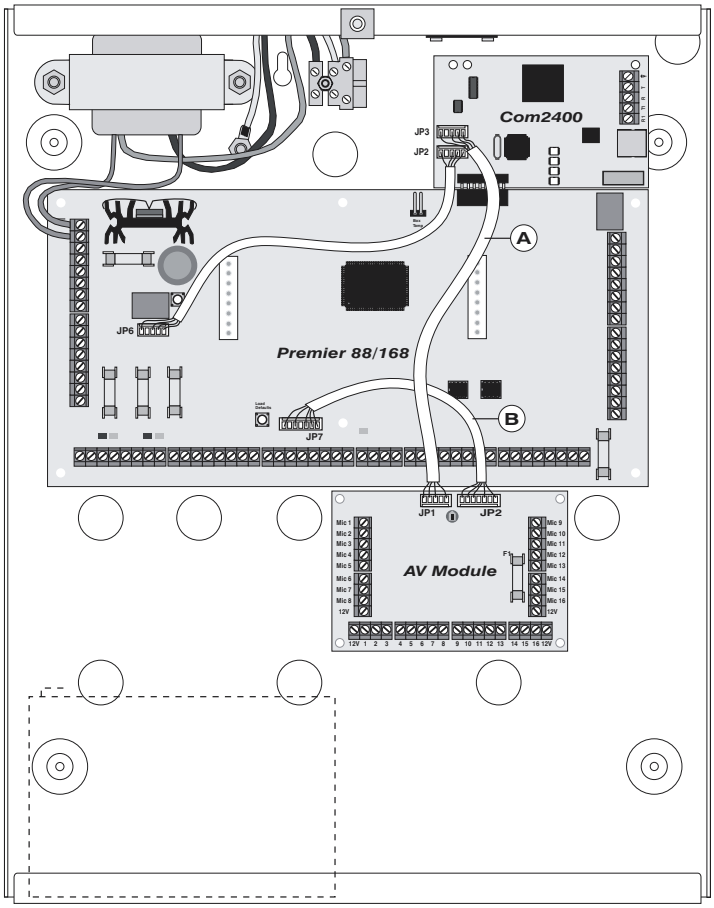


**Figure 2. *AV Module* Installed in Control Panel**

## Connecting *RMU's* to an *AV Module*

Up to a maximum of 16 *RMU's* can be connected to the *AV Module*. The figure below shows wiring connections for a two *RMU* setup:

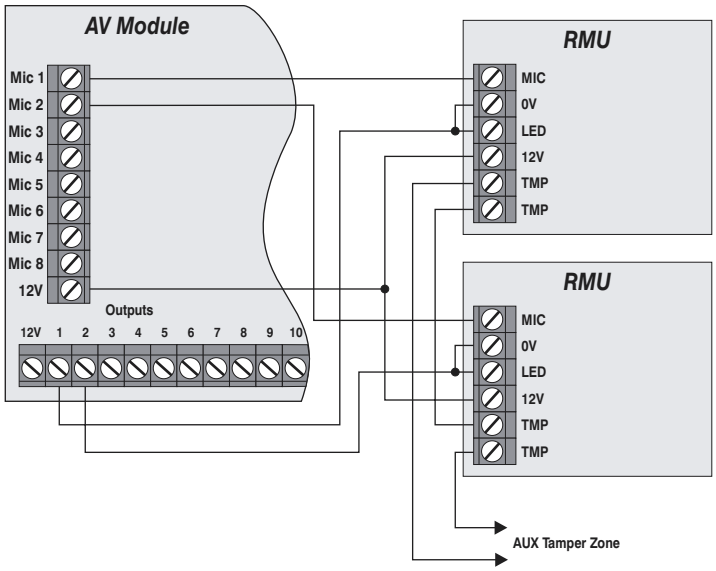


**Figure 3. *RMU* Connection Details**

## Commissioning

Once you have installed the *AV Module* and *RMUs* the system can be powered up. The system will then need to be programmed correctly in order for the *AV Module* to function as expected:

1) Select the "Engineer's program" menu.
2) Select the "UDL/Digi Options" menu, and then select the "Com Port Setup" menu. The Com Ports must be programmed as follows:
   a) Onboard Digicom = Com2400 Module.
   b) Com Port 1 = Com2400 Module.
   c) Expansion Port = AV Module
3) From the main "UDL/Digi Options" menu select the "Radio/SMS Options" menu, and then select the "Setup AV Module" menu. The following options must be programmed:
   a) AV No.1-3.
   b) AV Dial Attempts.
   c) AV Re-Dial Delay.
4) From the main "UDL/Digi Options" menu select the "UDL Options" menu. Ensure that the following options are programmed as required:
   a) Answer Phone Defeat.
   b) Rings Required.
5) From the main "UDL/Digi Options" menu select the "Program Digi" menu. Ensure that the following options are programmed as required:
   a) ARC Protocol.
   b) Primary and Secondary Number.
   c) Account Number.
   d) Dialling Attempts.
   e) Reporting Areas.
   f) Reporting Events.
   g) Configuration (Activate AV must be enabled).
6) Once steps 1 - 5 have been completed you can test the operation of the *AV Module* (see Testing the *AV Module*).

## Testing the *AV Module*

The procedure below shows how to perform a simple operational test for the *AV Module*. For full details of operation you should refer to the "*AV Module* User Manual".

1) Using a touch-tone telephone dial the control panel. When the control panel answers you will hear a series of high pitched beeps, press the **[*]** key on your telephone whilst the beeps are playing.
2) Enter your pass code e.g. "5678" on the telephone (if your code is accepted you will hear two high pitched beeps).
3) You are now online with the control panel.
4) Enter **[*][4]**to select the *RMU* Menu.
5) Enter **[0][1]** to select *RMU* 01 and listen to the audio response on your telephone. You can press the **[*]** key to generate a "Ping" tone if required. If the audio level is to low or high the level can adjusted for ALL microphones by adjusting the volume level on the *AV Module* PCB (see Figure 1). If the audio level is to low or high for a particular microphone it can adjusted at the microphone itself.
6) Enter **[0][2]** to select *RMU* 02 etc. and repeat step 5. When you have tested all *RMUs* press **[#]** to exit the *RMU* menu.
7) Enter **[*][0][#]** to hang-up the call with the control panel.

## *AV Module* Command List

The table below shows all the commands used to control the *AV Module*:

| Key | Command |
|---|---|
| ***1#** | Arm Partitions |
| ***2#** | Disarm Partitions |
| ***3#** | Reset Partitions |
| ***4** | *RMU* Menu:<br>**01** - **16** = Select *RMU* 01 to 16 for listen-in mode.<br>***** = Generate "Ping" Tone (see Note 1)<br>**#** = Exit *RMU* Menu |
| ***5xx1#** | Switch ON AV Outputs 01 to 16 (xx) - see Note 2 |
| ***5xx0#** | Switch OFF AV Outputs 01 to 16 (xx) - see Note 2 |
| ***6x1#** | Switch ON PC Outputs 1 to 8 (x) |
| ***6x0#** | Switch OFF PC Outputs 1 to 8 (x) |
| ***7#** | Remove your Number from AV Call List |
| ***8#** | Cancel AV Calling Sequence |
| ***0#** | Hang-up Call |

**Note 1** Whilst you have a microphone selected, if you press the "Ping" key **[*]**, a chime will be heard from the expander and keypad speaker outputs. For example, if *RMU* 04 is selected, pressing the **[*]** key will cause remote keypad 4 and expander 4 to generate a chime tone.

**Note 2** If the "Auto AV Output" option is enabled (default) in the system configuration options, the *AV Module* outputs (1-16) will automatically switch on when the associated microphone is selected. For example, when *RMU* 2 is selected, Output 2 on the *AV Module* is also switched on.

CE

The *AV Module* conforms to European Union (EU) Low Voltage Directive (LVD) 73/23/EEC (amended by 93/68/EEC) and Electro-Magnetic Compatibility (EMC) Directive 89/336/EEC (amended by 92/31/EEC and 93/68/EEC).

The CE mark indicates that this product complies with the European requirements for safety, health, environment and customer protection.