

MUSICA™ Application Note

Musica Keypad with Multiple Sub-Zones

Introduction

This application is most commonly used when there are multiple areas within an existing zone. For instance, the master bedroom might have a bathroom and sitting area as part of the zone. You can control the volume in different areas even though the controls are in the main room.

IMPORTANT! Use impedance matching volume controls to:

- keep the amplifier at eight ohms or set the impedance on the amplifier to four ohms, **or**
- set the impedance on the amplifier to four ohms and use speakers with an eight-ohm rating in both rooms.

Before you begin, ensure that the amplifier is set as follows:

- MU4602 - set the jumpers on the back of the 2.0 keypad to four ohms each.
- MU5066 - configure as follows:
 1. From the keypad menu, scroll to **ADJ**.
 2. Scroll to the speaker.
 3. Scroll right and select four ohms.
 4. Exit the menu.

Requirements

This configuration requires:

- speaker wire, and
- siamese cable.

Pre-Wire

Figure 1 shows you how to connect speakers for sub-zones in a room configured with *Musica* equipment.



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Products Included:
Musica MU4602 Keypads
or
Musica MU5066 Keypads

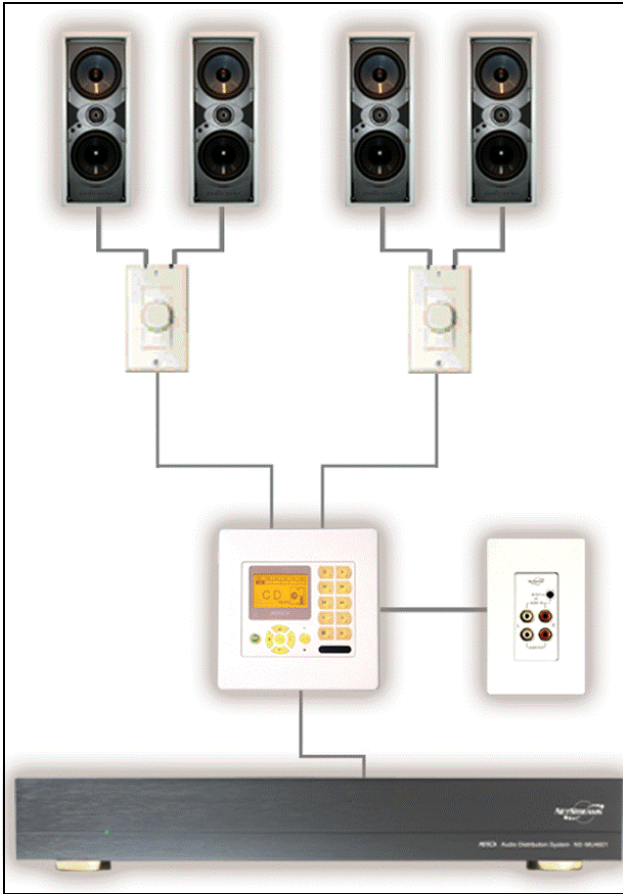


Figure 1 Pre-wire configuration

To prewire, complete the following steps:

1. Connect speaker wire from the speakers to the volume control locations.
2. Run speaker wire from the volume control locations to the keypad locations.

NOTE: *NetStreams* recommends you pre-wire for an Audio Port Expansion Interface Module (EIM) using CAT5e cable from the keypad to the Audio Port. The EIM provides the option for sending more power to the speakers when used with an MU290 or external amplifier. It can also be used with the AP300 for local zone input and output to an external amp or subwoofer.

3. Wire both sets of speakers in parallel to the right and left channels of the speaker outputs for the keypad.

Trim

To finalize connections, complete the following steps:

1. Terminate the wires with Phoenix connectors to the keypad speaker outputs.
2. Terminate all speaker wire to the speakers and volume controls.

