

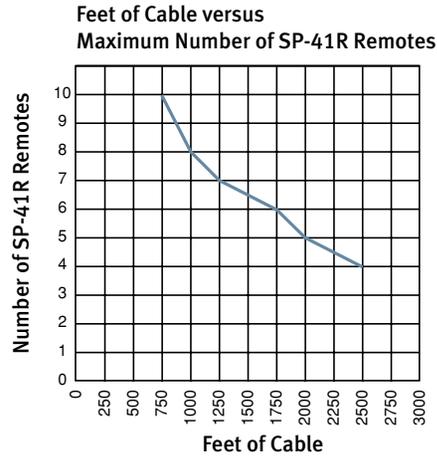
## Installing the SP-41R

The SP-41R can be installed in a double-gang electrical box with a Decora®-style faceplate.

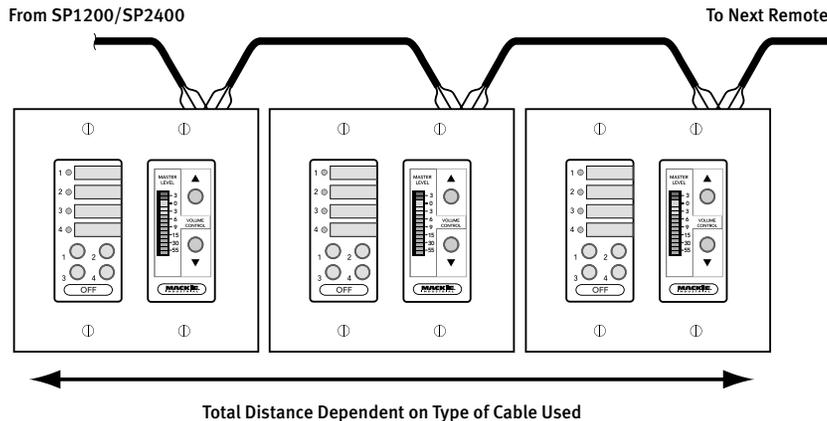
## Connecting Multiple Remote Controls

Up to ten remote controls can be connected to the SP1200/SP2400 REMOTE bus. The maximum length of the cable depends on the type of cable used and the number of remote controls used in the system.

As a general rule, using 22 gauge wire (at 0.014 Ω /ft. and 34 pF/ft.), one remote can be up to 3000 feet away, five remotes can be up to 2000 feet away, and ten remotes can be up to 750 feet away before transmission losses become a factor.



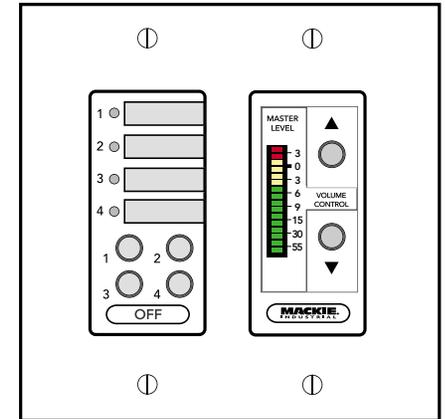
Distance Chart for SP-41R Cable



## SP-41R Remote Switch and Volume Control

### Quick-Start Guide

The SP-41R is a real-time remote switch and volume control for use with the SP1200 and SP2400 Program Controller/Amplifiers. The SP-41R can be used to select the input source and adjust the output volume for the amplifier channel to which it is connected. Up to ten remote controls can be connected to the SP1200 or SP2400 REMOTE connector.



### Safety First!

Before connecting and using the equipment, please read this Quick-Start Guide carefully and keep it for future reference.

**WARNING!** This equipment has been designed to be installed by qualified professionals only! There are many factors to be considered when installing professional sound reinforcement systems, including mechanical and electrical considerations, as well as acoustic coverage and performance. Mackie Industrial strongly recommends that this equipment be installed only by a professional sound installer or contractor.

1. Never install, connect, or disconnect the remote control with the SP1200/SP2400 power supply on.
2. Before applying power to the SP-41R, make sure the wiring is correct as described in this Quick-Start Guide.



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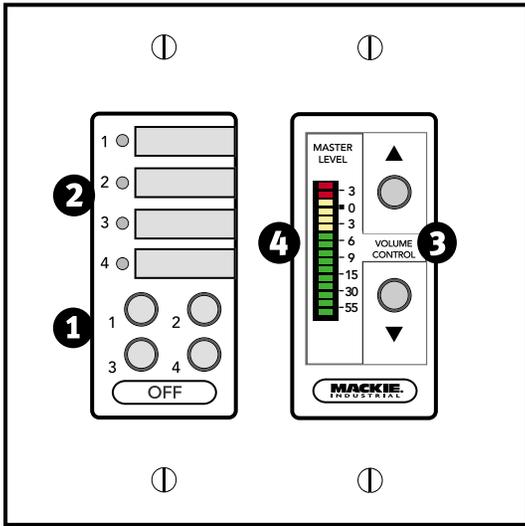
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## Front Panel Features

### 1 SELECT BUTTONS

Use to select the input source for the SP1200 or SP2400. These buttons correspond to the buttons on the front panel of the SP1200/SP2400. The OFF button deselects Inputs 1-4 and activates the MIC/LINE input.

Due to the cross-fade that occurs when switching input sources, there may be a few seconds delay when attempting to switch quickly between sources.

### 2 SELECT LED INDICATORS

Indicates the active input source. When the LED is lit, the corresponding input source is selected. When all the LEDs are off, the OFF button is active and the MIC/LINE input is selected.

A space is provided next to each indicating LED for inserting a 1/4" x 7/8" label to identify the input source assigned to each select button.

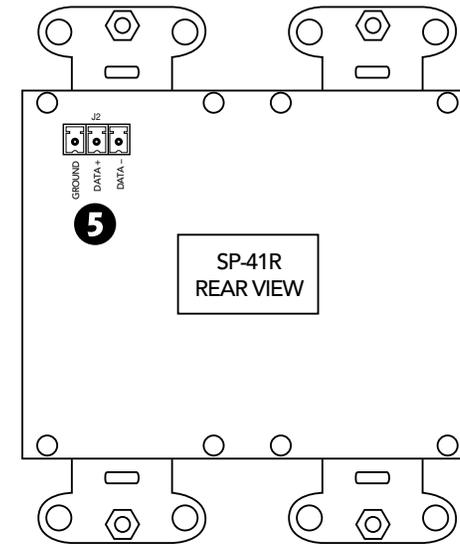
### 3 UP/DOWN VOLUME CONTROL

Use to adjust the output level for the zone. Duplicates the function of the MASTER VOLUME buttons on the SP1200/SP2400 front panel.

### 4 LED DISPLAY

Indicates the level setting of the MASTER VOLUME control.

**Note:** The LED display does not indicate the signal level in real time, but rather the level setting of the MASTER VOLUME control.



## Rear Panel Features

### 5 CONNECTOR (J2)

Connect the wires from the SP1200 or SP2400 REMOTE bus to this connector on the back of the SP-41R using the supplied Phoenix-type connector. Strip the wire back about 1/4", insert the wire as far as it will go into the connector and tighten down the screw with a small slot-head screwdriver.

Use a high-quality three-conductor shielded cable to make this connection, such as Belden 8451, 9451, or equivalent.

The connector is wired as follows:

SP1200/SP2400	SP-41R
1 (Ground)	GND
2 (+ Data with +24V DC power)	+
3 (- Data with +24V DC power)	-

