



Two Wire Adapter

Model MCTWA

Installation and Use Manual

Description

The MCTWA is a two-wire adapter card designed for use with Multicom® 2000 systems and Multi-Graphic® rack products. The MCTWA eliminates the need for a third annunciator lead for call switches. It has an added feature of balanced bridge call detection, which virtually eliminates false call-in. Common return wiring eliminates the need for isolated speaker shields.

When used with Multicom 2000 systems, the MCTWA will allow normal, urgent, and emergency signaling on two wires. When used with Multi-Graphic products, the Model SCR25A adapter board is also required. (See *Figures 1a and 1b* on back.)

The MCTWA operates from 24V DC, at a maximum of 2.4 watts per adapter. The Bogen RF24A power supply is recommended and can supply power for up to 10 MCTWA boards. (See *Figure 2*.)

The MCTWA stations can also be configured in the four-wire mode. (See *Figure 3*.)

Installation Instructions

Insert the MCTWA onto the Model MCRM relay module. Use the mounting holes provided to secure the MCTWA to the MCRM.

Specifications

Functions:	Provides common mode call-in signaling on speaker lines, eliminating the need for an annunciator lead
Terminations:	0.156 centerline connectors
ICs:	12 high-performance operation amplifiers
Power Required:	24V DC at 2.4 watts per board
Dimensions:	16-3/4" W x 1-1/8" H x 4-5/8" D

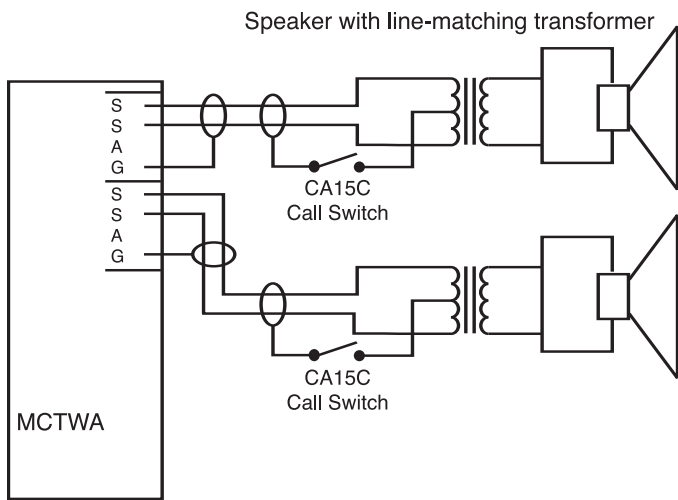


Figure 1a. Example of common wire return path

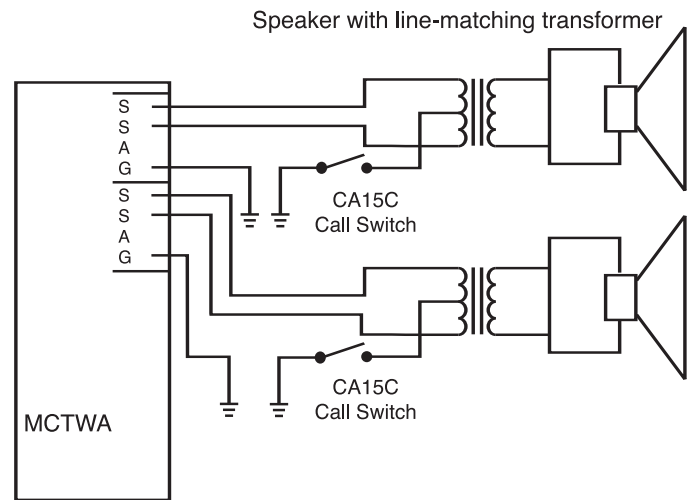


Figure 1b. Example of conductive conduit or cold water pipe return path

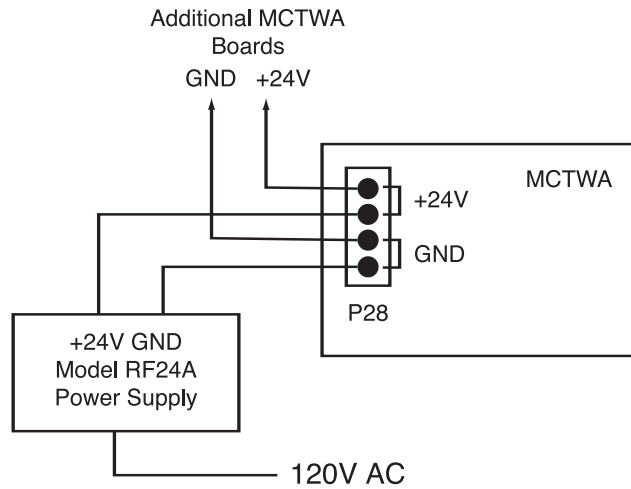


Figure 2. Example of power supply connection

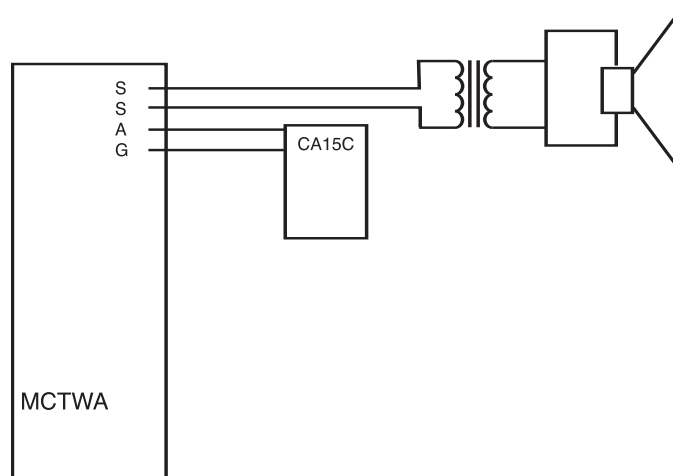


Figure 3. Example of four-wire connection