

### MCE-325 User Station

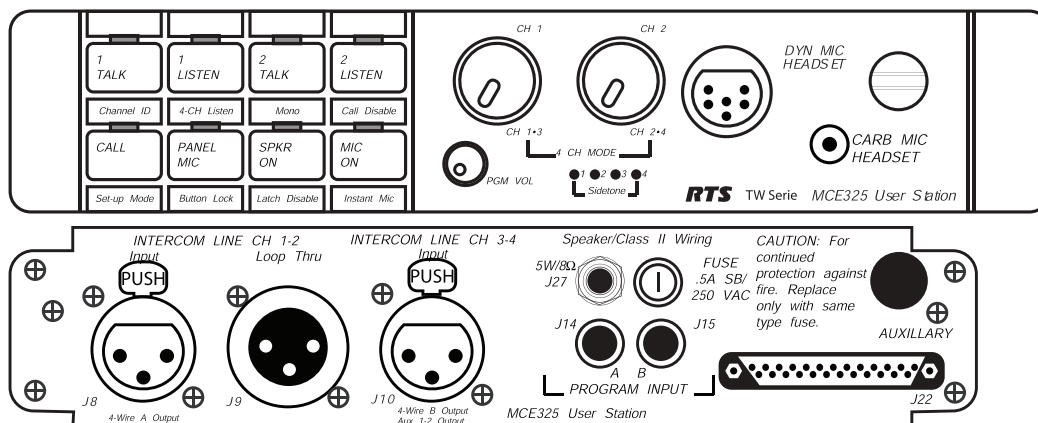


The MCE-325 is a 4-channel, programmable intercom station. It may be used as a headset station or with the addition of the MCS-325 Modular Speaker as a speaker station. It may be mounted in a console or equipment rack via optional mounting kits. The MCE-325 can be used with either 2-wire or 4-wire intercom lines, or a combination of both. In the labeling on the MCE-325, references to channels 1, 2, 3, and 4 indicate 2-wire lines; references to 4-wire A and 4-wire B indicate 4-wire lines. The MCE-325 can be interfaced to a variety of external devices including external program sources, 2-way radios, paging systems, and satellite circuits.

## Features

- Call signaling is accomplished using an inaudible (20kHz) signal to activate a call indicator LED.
- Remote talk-off (mic kill) active, unattended remote station microphones may be deactivated by momentarily injecting an inaudible (24 kHz) signal into the corresponding intercom line. The MCE-325 can send and receive talk-off (mic kill) signals.
- VOX circuit, the MCE-325 may be programmed for voice activation of the microphone.
- Simple IFB program audio assigned to a channel is interrupted during talk.
- The microphone preamplifier circuit contains a limiter, which helps to equalize voice levels.
- Retains programming even when power is shut off.
- External devices, such as 2-way radios, speaker mute relays, or paging systems may be activated through key outputs at the auxiliary connector on the rear panel. The key outputs may also be used to expand the simple IFB function, allowing any one (1) of a number of MCE-325 stations to interrupt the program source and talk on the line.

## Line Drawings



## Specifications

### General

Bridging Impedance (to line) 10k $\Omega$  typical  
Noise Contribution to 200 $\Omega$  Line -90dBu  
Call Signal Frequency 20kHz  
Talk-off (Mic Kill) Frequency 24kHz

### Microphone Preamplifier

Maximum Voltage Gain 54dB  
Frequency Response 100Hz to 8kHz,  $\pm$ 3dB  
Input Impedance 1k $\Omega$   
Limiter Range 30dB

### Headphone Amplifier

Maximum Voltage Gain 30dB  
Frequency Response 100Hz to 8kHz,  $\pm$ 3dB  
Headphone Impedance 50 to 600 $\Omega$   
Output Power 150mW into 50 $\Omega$   
Output Voltage Level 8Vp-p (2.9Vrms)

### Speaker Amplifier

Maximum Voltage Gain 30dB  
Frequency Response 100Hz to 8kHz,  $\pm$ 3dB  
Speaker Impedance 8 to 16 $\Omega$   
Output Power per Amplifier 5W into 8 $\Omega$   
Output Voltage Level 16Vp-p (5.7Vrms)

### Power and Mechanical

Power Requirements 115 or 230VAC, 20VA max  
12 to 25VDC, 100 to 125mA quiescent, 900mA max  
Dimensions 1.72 in (44 mm) H x 8.2 in (208 mm) W x 8 in (203 mm) D  
Weight 4.5 lb (1.93 kg)  
Material/Finish Thermo-plastic front panel, aluminum case, light gray finish

### Connectors

Intercom Line Connector XLR type, 3-pin (male-female loop through on 2-wire  
Channel 1 and 2, or 4-wire channel A; Female only on 2-wire channel 3 and 4, or 4-wire channel B  
Dynamic Mic XLR type, 6-pin female  
Carbon Mic 1/4-inch phone jack, 3-circuit  
Auxiliary Connector 25-pin, female, D-Sub  
Program Inputs 1/4-inch phone jack, 3-circuit  
Speaker Output 1/4-inch phone jack, 3-circuit  
Panel Mic 1/4-inch phone jack, metal busing, 3-circuit

## Order Information

MCE-325 A5F • MCE-325 A5F • 2-channel or 4-channel user programmable modular user station  
MCE325 A4F • MCE-325 A4F • 2-channel or 4-channel user programmable modular user station with A4M headset connector, UL approved

The specification information is preliminary and is subject to change without notification.  
Brand names mentioned are the property of their respective companies.