



## CM-300L

### Console Mount User Station

The Model CM-300L is a console mount, two-channel intercom user station. The user station is designed to be used in a full duplex, conference line intercom system.

## Features

### Volume Control

The volume control on the CM-300L has a wide range to compensate for: user hearing differences, ambient noise variation, variations in headset / handset sensitivity, and variations in voice. The volume control in the CM-300L reduces distortion by driving the headphone amplifier only as much as needed.

### Microphone Switch

In normal system operation, one or more users talk and the others listen. A microphone switch on each station allows the talker's microphone to be enabled and allows the listeners to keep their microphones disabled. In this condition, speech intelligibility is enhanced since background noise from other microphones is not present. On the Model CM-300L, a toggle switch turns the microphone on.

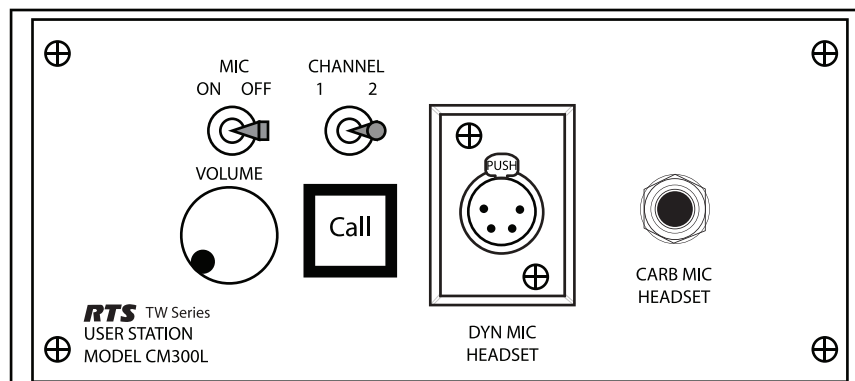
### The Channel Select Switch

A channel selector switch allows a choice of two (optionally three) channels. When the switch is on the "1" position the station talks and listens on channel 1, on the "2" position, to channel 2.

### Call Light Push Button

Pushing this button transmits a call signal to all other units on the channel selected by the channel selector switch. A call signal on this channel will cause the call light push button to flash. The flash rate is 2 to 5 times a second. The call signal itself is a 20 kilohertz signal.

## Line Drawings



# CM-300L Specifications

## Input DC Voltage

TW Mode: 18 to 35 volts DC  
LP Option: 15 to 35 volts DC  
Battery: 12 to 35 volts DC (reduced performance)

## DC Current Drawing from TW Line (Note: LP Option draws no current from TW line)

Quiescent  
CM-300/RM-300: 23 milliamperes  $\pm 10\%$   
CM-300/RM-300L: 33 milliamperes  $\pm 10\%$   
Operating 25 ohm headphones  
CM-300/RM-300: 37 milliamperes  $\pm 10\%$   
CM-300/RM-300L: 45 milliamperes  $\pm 10\%$   
Operating 25 ohm headphones + Call Light  
CM-300/RM-300: 60 milliamperes  $\pm 10\%$   
Impedance Across Line: 10,000 ohms, minimum

## Environmental

Temperature  
Operating: 0°C to 60°C  
Storage: -40°C to 85°C  
Humidity  
Operating and Storage: 5% to 95% non-condensing

## Noise Contribution

One Unit: -75 dBu  
Ten Units: -67 dBu

## Microphone Preamplifier

Input Impedance: 470 ohms/dynamic mic  
Source Impedance: 200 ohms, nominal  
Maximum Input Level: 150 millivolts  
Frequency Response: 100 hertz to 10 kilohertz  $\pm 3$  dB (-54 dBu input)  
Limiter Range: 30 dB  
Carbon Mic Excitation Current: 10 milliamperes, nominal

## Current Source

Transfer Ratio: 3.3 milliamperes/volt=3.3 millisiemens  
Output:  $\pm 5$  milliamperes into 200 ohms =  $\pm 1$  volt peak, nominal

## Headphone Amplifier

Voltage Gain: 34 dB  
Output Voltage: 8 volts peak-to-peak into 25  $\Omega$   
Output Power: 1/2 watt peak into 25 ohms  
Frequency Response: 150 hertz to 8 kilohertz  $\pm 3$  dB  
Headphone Impedance Range: 25 to 600 ohms (600 to 2000 with reduced levels)  
Note: Do not use headphones with impedance less than 25 ohms.  
Sidetone Adjustment Range: -20dB to full on

## Call-Light

Signaling Frequency: 20,000 hertz  $\pm 100$  hertz  
Flashing Rate: 5 hertz  $\pm 2$  hertz

## Auxiliary Connections

Headset Connector  
Dynamic Microphone: XLR type 4-pin female  
Carbon Microphone: 1/4" standard phone jack, 3-circuit

## Live Connection

Input: XLR type 3-pin female  
Loop/External: XLR type 3-pin female  
Mechanical (CM-300/CM-300L)  
Dimensions: 2.75" (69.9mm) high, 6.25" (158.75 mm) wide, 6.4 (162.6mm) deep  
Weight: 1.2 lbs (0.55kg)  
Finish: Front Panel: Light Gray Enamel Paint, Federal Standard 595A Color#26492  
Chassis: Gold Iridite over aluminum

## Contact Information

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Form Number: 38110-492  
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## Ordering Information

**CM-300L A4F** • 2 channel console mount user station with an A4F headset connector • Catalog Number: 9000264400

**CM-300L A5F** • 2 channel console mount user station with an A5F headset connector • Catalog Number: 9000264403

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