

CM-300L Console-Mount User Station

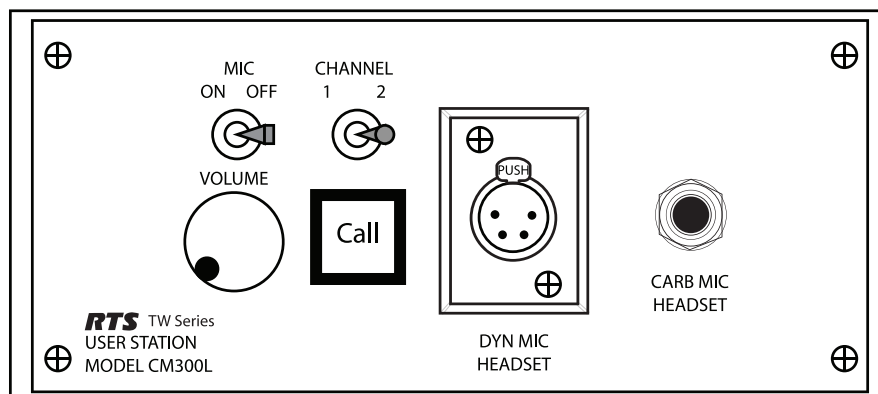


The CM-300L is a console mount, 2-channel intercom user station. The user station is designed to be used in a full-duplex, conference line intercom system.

Features

- On the CM-300L, a toggle switch turns the microphone on or off. When the mic is turned on one (1) or more users talk and the others listen.
- 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.
- Channel selector switch allows a choice of 2-channels.
- Call light push 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 20kHz signal.

Line Drawings



Specifications

Input DC Voltage

TW Mode: 18 to 35VDC

LP Option: 15 to 35VDC

Battery: 12 to 35VDC (reduced performance)

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

Quiescent

CM-300/RM-300: 40mA \pm 10%

CM-300/RM-300L: 50mA \pm 10%

Operating 25 Ω headphones

CM-300/RM-300: 60mA \pm 10%

CM-300/RM-300L: 60mA \pm 10%

Operating 25 Ω headphones + Call Light

CM-300/RM-300: 100mA \pm 10%

Impedance Across Line: 10k Ω , minimum

Environmental

Temperature

Operating: 0°C to 50°C (32°F to 120°F)

Storage: -40°C to 85°C (-40°F to 185°F)

Humidity

Operating and Storage: 5% to 95% non-condensing

Noise Contribution

One Unit: -75dBu

Ten Units: -67dBu

Microphone Preamplifier

Input Impedance: 470 Ω /dynamic mic

Source Impedance: 200 Ω , nominal

Maximum Input Level: 150mV

Frequency Response: 100Hz to 10kHz \pm 3dB (-54dBu input)

Limiter Range: 30dB

Carbon Mic Excitation Current: 10mA, nominal

Current Source

Output: \pm 5mA into 200 Ω = \pm 1 volt peak, nominal

Headphone Amplifier

Voltage Gain: 34dB

Output Voltage: 8 volts peak-to-peak into 25 Ω

Output Power: ½ watt peak into 25 Ω

Frequency Response: 150Hz to 8kHz \pm 3dB

Headphone Impedance Range: 25 to 600 Ω (600 to 2k Ω with reduced levels)

Note: Do not use headphones with impedance less than 25 Ω .

Sidetone Adjustment Range: 20dB

Call-Light

Signaling Frequency: 20kHz \pm 100Hz

Flashing Rate: 5Hz \pm 2Hz

Auxiliary Connections

Headset Connector

Dynamic Microphone: XLR type 4-pin female

Carbon Microphone: ¼" standard phone jack, 3-circuit

Line Connection

Input: XLR type 3-pin female

Loop/External: XLR type 3-pin female

Mechanical (CM-300/CM-300L)

Dimensions: 2.75" (69.9mm) H, 6.25" (158.75mm) W, 6.4" (162.6mm) D

Weight: 1.2lbs (0.55kg)

Finish: Front panel light gray enamel paint,

Chassis: Gold Iridite over aluminum

Order Information

CM300L A4F • CM-300L A4F • 2-channel console mount user station with an A4F headset connector

CM300L A5F • CM-300L A5F • 2-channel console mount user station with an A5F headset connector

The specification information is preliminary and is subject to change without notification.
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