



MRT-327 User Station

The Model MRT-327 is a two-channel intercom station for use in RTS™ TW intercom systems. It may be used as a headset station or as a speaker station (with an optional MCS-325 Modular Speaker). The MRT-327 may be installed in optional console or rack mount configurations

Features

Call signaling

The MRT-327 can send and receive 20 kHz call signals.

Dual-Action Momentary/Latching Mic Switch

The Mic on/off switch can be used as a momentary push-to-talk switch or as a latching on/off switch.

Remote Deactivation

The MRT-327 can receive 24 kHz "talk-off" signals for deactivation of the MRT-327 microphone from a remote location.

Microphone Limiter

The microphone pre-amplifier circuit contains a limiter which helps to equalize output for different voice levels.

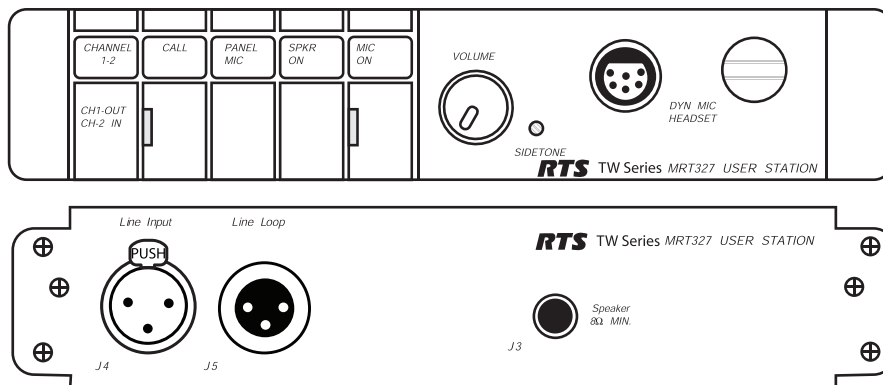
Optional Microphone Speaker & Headset Configurations

The standard MRT-327 accepts an unbalanced, dynamic-mic headset or a dynamic microphone used in conjunction with an external speaker located on the rear panel. It also has a jack for an optional Model MCP-90-xx gooseneck panel microphone. Additionally, the MRT-327 may be internally modified for use with a carbon or balanced-dynamic microphone. It can also be modified to provide the microphone audio as an unswitched, balanced output.

Powering Options

The MRT-327 receives operating power from the intercom line. It may be internally modified for local powering from a separate dc power supply or batteries.

Line Drawings



MRT-327 Specifications

General

Input DC Voltage
Mode: 18 to 35 volts DC
Local Power: 15 to 35 volts DC (12 to 15 volts DC, reduced performance)
DC Current Drawn from TW Line
Quiescent: 45 mA f10%
Operating, 25-ohm phones: 75 mA 210%
Operating, 25-ohm phones + call light: 90 mA f10%
Operating, 8-ohm speaker: 240 mA f108
Operating, %ohm speaker + call light: 300 mA 330%
Operating current is measured with output level at 10
Local power option draws no current from TW line.
DC Current Drawn from TW Line

Notes:

Operating current is measured with output level at 10 dB below clipping.
Local power option draws no current from TW line.

Impedance Across Line

10,000 ohms, minimum (designed for use with 200-ohm "W intercom lines)

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

(Ch 2): >-60 dBp
(Ch 1): >-80 dBp

Microphone Preamplifier

Input Impedance
470 ohms k 5% (dynamic mic)
Source Impedance
200 ohms, nominal
Maximum Input Level
150 millivolts
Frequency Response
(-54dB input): 100 HZ to 8 kHz S dB
Limiter Range
30 dB
Carbon Mic Excitation Current
10 mA, nominal

Current Source

Transfer Ratio
3.3 mA/volt = 3.3 milliseconds
Output
3.3 mA into 200 ohms = fl volt peak, nominal

Speaker Amplifier

Maximum Voltage Gain
30 dB
Frequency Response
100Hz to 8kHz*4dB
Output Power
1.5 watts into 8 ohms nominal
Speaker DIM (speaker muting during mic activation) adjustable, -4 to -30 dB (Factory set to -6 dB)

Headphone Amplifier

Voltage Gain
34 dB
Output Voltage
8 volts peak-to-peak into 25 ohms nominal
Output power
1/2 watt peak into 25 ohms
Frequency Response
150 Hz to 10 kHz 33 dB
Headphone Impedance Range
25 to 600 ohms (600 to 2000 ohms with reduced levels)
Sidetone Adjustment Range
-20 dB to full on

Call Light

Signalling Frequency
20 kHz +-100 Hz
Flashing Rate
5 Hz +-2 Hz

Talk-Off

Frequency
24 kHz nominal

Connectors

Dynamic Microphone Headset
XLR type 6pin female
Panel Microphone
1/4-inch standard phone jack, 3-circuit
Line Input
One (1) XLR type 3-pin female and one (1) XLR type 3-pin male, wired in parallel

Mechanical

Dimensions
1.71" (44 mm) tall, 8.2" (208 mm) wide, x 9.0" (228 mm) deep
Weight
2.75 lbs (1.25 kg)
Construction/Finish
Aluminum case, thermoplastic front panel, light gray finish

Contact Information

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Ordering Information

MRT-327 A5F • 2 user programmable modular user station • Catalog Number: 9000659300
MRT-327 A4F • 2 user programmable modular user station • Catalog Number: 9000659301

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