

# RE920TX



- Wide, Smooth Frequency Response
- Cardioid Polar Pattern
- Handles High SPL Levels
- Flexible Gooseneck Allows Easy Mic Adjustment



The RE920Tx is a cardioid condenser mic, designed specially for wireless use with musical instruments. It includes a specially designed instrument mount clip assembly, which securely holds the mic in place, while isolating it from mechanical vibration. The mic is terminated in a TA4F connector wired for use with EV & Telex bodypack transmitters, and includes a two-stage foam windscreen, and a gig bag.

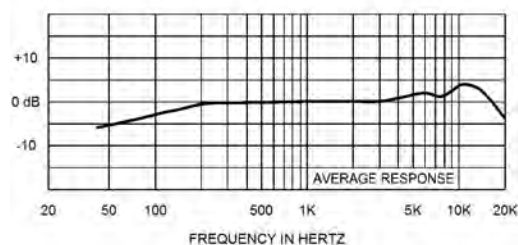
## Technical specifications

|                                           |                                                                               |
|-------------------------------------------|-------------------------------------------------------------------------------|
| Generation Element:                       | Self-Biased condenser, back electret 2-micron thick, gold sputtered diaphragm |
| Frequency Response:                       | 80-18 kHz (see chart)                                                         |
| Polar Pattern (see chart):                | Cardioid (see chart)                                                          |
| Sensitivity, Open Circuit Voltage, 1 kHz: | 1.3mV/Pascal                                                                  |
| Clipping Level::                          | >148 dB SPL                                                                   |
| Equivalent Noise:                         | 31 dB SPL                                                                     |
| Dynamic Range:                            | >117 dB                                                                       |
| Output Impedance, 1 kHz:                  | 1000 ohms                                                                     |
| Power Requirements:                       | 5 VDC                                                                         |
| Current Consumption:                      | < 500 uA                                                                      |
| Dimensions:                               | Diameter (Mic) 0.412 in (10.5 mm)                                             |

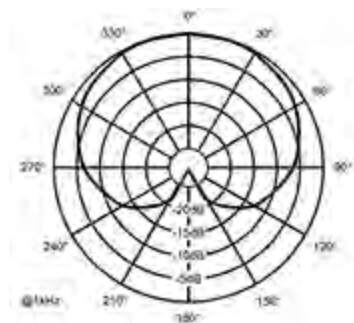
|                           |                                                                                                                |
|---------------------------|----------------------------------------------------------------------------------------------------------------|
|                           | Length (Mic) 0.948 in (24.1 mm), less strain relief<br>Length: (Mounted) 6.2 in (158 mm)                       |
| Cable:                    | 0.100 in (2.54 mm) diameter x 5 ft (1.5 m) long                                                                |
| Connector Wiring:         | Pin #1 - Ground, Shield<br>Pin #2 - Audio, White<br>Pin #3 - Bias Voltage, Red<br>Pin #4 - N/C                 |
| Accessories Furnished:    | Two stage windscreen<br>Gig bag                                                                                |
| Color:                    | Nonreflecting black                                                                                            |
| Environmental Conditions: | Relative Humidity 0-50%: -29° to 74°C (-20° to 165°F)<br>Relative Humidity 0-95%: -29° to 57°C (-20° to 135°F) |
| Net Weight:               | 1.9 oz (54 grams)<br>Mic only: 0.81 oz (54 grams)                                                              |

## System overview

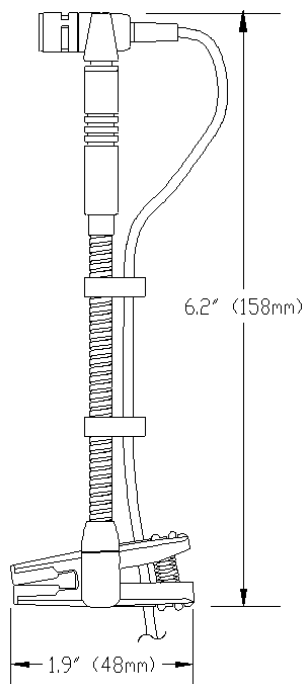
### Frequency Response:



### Polar Response:



### Dimensions:



### Application Notes:

#### Cable Clips

The gooseneck on the RE920Tx includes a pair of soft vinyl clips to hold the microphone cable. These can be adjusted as needed to make sure the cable does not interfere with the use of your instrument.

#### Using the Windscreen

This microphone includes a windscreen that can be used anytime wind noise or breath pop is a problem. To install the windscreen, simply press it on the top of the microphone. The windscreen has an internal frame that includes a stop, to help position the windscreen correctly. When installing the windscreen, make sure to push it down on the microphone as far as it can go. This ensures the frame inside the windscreen does not cover any of the acoustic side ports on the microphone.

#### Microphone Placement:

Some suggested microphone placements are described below. The tone of the instrument can be varied a great deal depending on the exact placement of the mic. The optimum placement is the one where the mic sounds best and is mostly a matter of personal preference.

#### Trumpets and Trombones

Mount the microphone on the bell of the instrument as shown on the reverse side of this sheet. Pointing the mic towards the center of the bell will result in a brighter sounding tone.



### Saxophones

Mount the microphone on the bell of the instrument as shown on the reverse side of this sheet. Pointing the mic towards the center of the bell will result in a brighter sounding tone.



### Woodwinds

For a bright sound, clamp the microphone on the bell of the instrument and point it towards the center of the bell. For a mellower sound, reverse the mic clamp so that mic points towards the instrument keys.

### Mic Removal and Insertion:

#### Microphone Removal

To **remove the mic from its clip**, do the following:

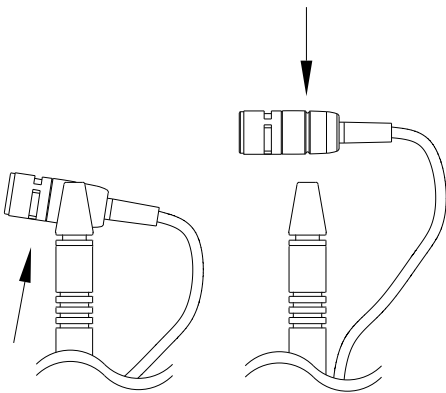
> Gently twist it upward as shown while grasping the plastic clip.

#### Microphone Insertion

To **insert the mic into its clip**, do the following:

> Push the mic straight down as shown until it snaps into place.

*Ensure the groove in the mic engages the internal ribs in the clip.*



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## Ordering information

### RE920TX

Premium Cardioid Condenser Wireless Instrumental  
Microphone

Order number **RE920TX**