



# RIV 9124

## Radio Interference Voltage Calibrator



Two custom frequencies in the range:  
100kHz to 2MHz Accuracy +/- 0.5%

For RIV measurements according to the latest standard it's advised to choose the 2 custom frequencies in the range of: 850kHz – 1.15MHz.

### Output Level

- 10 mV
- 1 mV
- 100 uV
- 10 uV

Peak or RMS (peak / root [2]). Accuracy < 2dB

### Output Impedance

- 5R @ 10mV
- 1R @ 1mV
- 1R @ 100uV
- 1R @ 10uV

### GENERAL

The RIV calibrator is a battery powered hand held instrument needed in the calibration process of the DDX9121 RIV system.

### BATTERY

4 of NiMH AA rechargeable

### OUTPUT

Sine wave output – BNC connector

### NOTES

Amplitude is +/- 1.6% into a 1% attenuator chain (worst case is 0.5dB). Frequency is driven from a +/-100ppm crystal with a +/-100ppm change over temperature.

### Output Frequency

- 100 kHz
- 120 kHz
- 150 kHz
- 200 kHz
- 280 kHz
- 350 kHz
- 500 kHz
- 600 kHz
- 800 kHz
- 1 MHz
- 1.2 MHz
- 1.5 MHz
- 2.0 MHz

The standard (ANSI C63.2) does not give any accuracy required for the calibrator. What it gives is a value for the overall accuracy of the instrument:  
+/- 2dB voltage amplitude\*  
+/- 3dB field strength\*  
+/- 2% frequency

\* "Including calibrator"

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