



RIV 9220

Radio Interference Voltage Calibrator



General

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

Output

Sine wave output – BNC connector

Output Frequency

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

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

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

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

Output Impedance

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

Battery

4 of NiMH AA rechargeable

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.

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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