

EM-6905 | Active Vertical Antenna



Description

The Electro-Metrics EM-6905 41" Active Vertical Antenna includes an amplifier that results in high sensitivity to the electric field in the frequency range of 1 kHz to 200 MHz. The EM-6905 can easily be used with any 50-ohm receiving instrument improving sensitivity over a passive device.

The EM-6905 provides 12 to 14 dB of sensitivity improvement over a Passive Vertical Rod Antenna in the range of 1 kHz to 10 MHz and 3 to 5 dB or more up to 30 MHz.

Specifications

Electrical

Frequency Range (calibrated):

1 kHz - 200 MHz

Dynamic Range: Typically 120 dB,
1 μ V/m to 1 V/m**Impedance:** Designed to drive a 50-ohm load**Saturation Level:** Typically 126dB (μ V/m) CW,
105 dB (μ V/m/MHz) Broadband**Sensitivity:** From -13 dB (μ V/m/Hz) at 10kHz to
-40 dB (μ V/m/ Hz) at 30 MHz,
typical normalized to 1 Hz
bandwidth**Power Source:** External 12 V.D.C. required**Connector:** Type SMA (Jack)

Mechanical

Base Dimensions:**Length:** 6.35 cm (2 1/2")**Width:** 6.35 cm (2 1/2")**Height:** 22.1 cm (8 3/4") (w/collapsed rod)**Length Antenna Rod: Standard:** 152.4 cm
(60")**Weight:** .22 kg (.48 lb.)**Mounting:** Standard 1/4 -20 thread**Optional external battery pack available.**

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