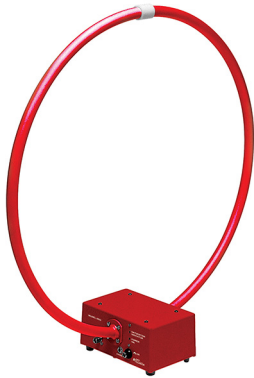


## 6502 ACTIVE SHIELDED LOOP ANTENNA

The Model 6502 is an active receiving loop antenna, for EMC testing applications.



The preamplifier helps this loop antenna produce good sensitivity and almost constant antenna factors when testing for EMC applications. A preamplifier is built into the base and provides a 50-ohm output.

The saturation indicator is activated when an incoming signal exceeds the 5 V/m saturation limit of the internal preamplifier. Power for the preamplifier is supplied by rechargeable sealed batteries. Front panel controls and indicators for the preamplifier include a power switch, power-on indicator, saturation indicator, and a receptacle for a battery charger. A switch selectable battery charger for 115 VAC or 230 VAC 50/60 Hz operation is included.

Every loop antenna is individually calibrated in accordance with ANSI , C63.5 using NIST traceable equipment. By knowing the actual antenna factors and performance characteristics of an antenna instead of typical data, you can more accurately measure field strength in your tests.

### Key Features

- Frequency Range: 9 kHz - 30 MHz
- Two Year Warranty
- Individually Calibrated per ANSI C63.5
- Remote Monitor Option
- Saturation Indicator

### Specifications

## Electrical Specifications

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**Frequency Minimum** 9 kHz  
**Frequency Maximum** 30 MHz  
**1 dB Comp. Point** 5 V/m  
**Connectors** BNC (f)  
**Dynamic Range** 125 dB @ 1 MHz  
85dB @ 10 kHz  
**Impedance (Nominal)** 50  $\Omega$   
**Pattern Type** omnidirectional  
**Polarization** linear  
**Power Required**  
110/230VAC 50/60Hz  
(Switch Selectable Battery Charger)  
**Sensitivity (Typical)**-1 dB( $\mu$ A/m) @ 10 kHz  
-42 dB( $\mu$ A/m) @ 1 MHz

## Physical Specifications

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**Height** 67.3 cm (26.50 inches)  
**Length** 12 cm (4.72 inches)  
**Weight** 2 kg (4.41 lb)  
**Width** 19 cm (7.48 inches)

## Other Specifications

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Antenna/loop assembly  
Battery Charger Mounting Bracket drilled accepts an ETS-Lindgren or other tripod mount with standard 1/4 in x 20 threads.