

FEATURES:

- **30 Hz - 50 MHz Frequency Range**
- **MIL-STD 461F Compliant**
- **ESD Protected Front End**
- **Internal Switch to Adjust Sensitivity and Frequency Roll-offs**
- **Audible/Visual Alarm for Saturation and Low Battery Conditions**
- **30 Hours of Continuous Operation on a Single Charge**
- **Two Year Warranty**



ETS-Lindgren's Model 3301C Active Monopole Antenna

The 3301C Active Monopole Antenna

is designed to provide reception of an electric field throughout its frequency range, in a single band, without tuning or bandswitching, with an antenna factor of 3 dB roll-off points at 170 Hz and 35 MHz. Between 250 Hz and 20 MHz, the antenna factor is flat within +/- 1 dB. To prevent saturation by the low frequency signals, the lower 3 dB point is switch-selectable at 170 Hz, 1.9 kHz or 22 kHz. The Model 3301C is able to sense fields of +7 dB (uV/m) at 1 MHz with a 1 Kz bandwidth and 10 dB signal-to-noise ratio. Saturation will not occur below a field strength of 0.8 V/m resulting in an extremely wide dynamic range. The saturation alarms (audible alarm and light indicator) alert you of the need to use the internal attenuators.

The Model 3301C Active Monopole Antenna consists of an adjustable rod, a counterpoise 61 cm x 61 cm (24 in x 24 in), a broadband high input impedance amplifier built into the base, and an internal battery charger. The front panel controls and indicators include a power switch and power-on indicator, a receptacle for the DC adapter for battery recharging, a female BNC output connector, and a signal saturation indicator. Power is supplied by internal rechargeable nickel-metal hydride batteries. The Model 3301C Active Monopole antenna has built-in electrostatic discharge protection at the antenna circuit front end to protect the amplifier circuitry.

The Model 3301C complies with MIL-STD-461F requirements, with grounded RF outputs, a ferrite loaded cable, and a grounding bracket included with each unit.

STANDARD CONFIGURATION

- Adjustable Monopole Element
- Antenna Base with a Built-in Preamplifier and a Female BNC Connector
- Antenna Base Mount with 1/4-20 UNC Internal Thread
- AA NiMH Batteries and AC/DC Adapter Charger
- Counterpoise
- MIL-STD 461F RF Cable and Grounding Kit
- Certificate of Calibration Conformance per ANSI C63.5 and SAE, ARP-958
- User Manual

OPTIONS

- Custom Carrying Case
- Non-metallic, Non-Reflective Tripod
- Model 3301CAL Calibration Block for Antenna Factor Calibrations

Electrical Specifications

MODEL	FREQUENCY RANGE	IMPEDANCE (NOMINAL)	CONNECTORS	POLARIZATION	CHARGER INPUT	BATTERIES	FAST CHARGE CURRENT	OPERATION TIME
3301C	30 Hz - 50 MHz	50 Ω	BNC (F)	Linear	5v DC/4 amp	8 x NiMH AA 2000 mAHr (typical)	600 mA (typical)	30 hours (typical)

Physical Specifications

MODEL	BASE DEPTH	BASE HEIGHT	BASE WIDTH	ROD LENGTH (EXTENDED)	WEIGHT
3301C	19.0 cm 7.5 in	8.8 cm 3.5 in	19.0 cm 7.5 in	104.0 cm 41.0 in.	1.4 kg 3.1 lb.

Model 3301C Antenna Factor Typical Performance

