

Model CS-LP230 (2-30MHz)

**1 or 2 KW ROTATABLE
HF LOG PERIODIC ANTENNA**



The LP-230 provides excellent reliability in medium to long range HF circuits. The rotatable antenna allows communication between a fixed station and mobile stations, such as ships, aircraft, or tactical deployments. This Log Periodic antenna is a lightweight, high-strength antenna which provides excellent HF performance in the 2 to 30 MHz frequency band. A rotary joint allows continuous rotation.

The LP-230 lightweight, rotatable, horizontal log periodic antenna, produced to Navy & U.S. Air Force requirements, is suitable for use where limited space and difficult access are encountered. The LP-230 system is supplied with or without a 60-foot tower. Primarily constructed of aluminum with the longest single piece being twelve feet, the entire system can easily be roof-mounted. A sixty foot self-supporting tower is also available ask to our sales@comsystems.com and rotator is controlled remotely to any azimuth, with lights indicating the antenna heading.

- Broadband operation available for ALE (automatic link establishment) or frequency hopping operation without complex external tuning units.
- Lightweight, compact array
- Low VSWR and high gain across the operating band

This Log Periodic can include: antenna, tower, rotator, controller, roof mount

STRUCTURAL CHARACTERISTICS

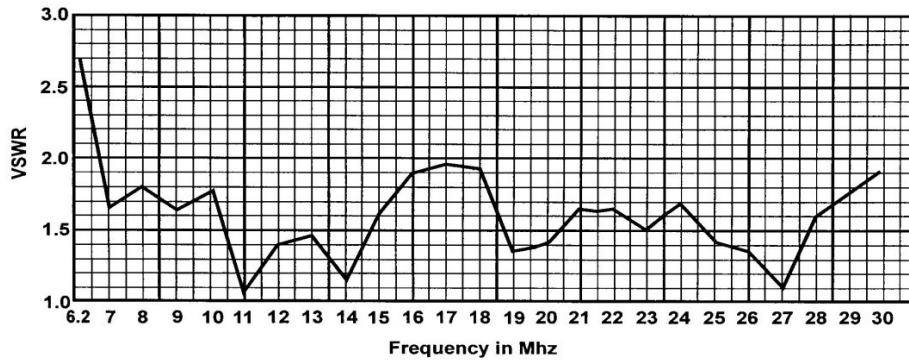
Boom length L	42feet/12 m
Longest element W *	70 feet/21 m
Turning radius	32 feet/9.6 m
Net weight	382 lbs/173.6 kg
Wind loading capability	
No ice	100 mph, no ice
Radial ice	65 mph, 1/2" ice
Shipping weight	1800 lbs/816 kg
Shipping volume	56cubic ft/1.58 cubic m

ELECTRICAL CHARACTERISTICS

Frequency range	2 – 30.0 MHz
Power handling capability PEP/average	1Kw(A) or 2 kw (B)
Polarization	Horizontal
Cross polarization	20 dB down
Forward gain over average soil conditions (in dBi)	9dB@6.2-12MHz * 12dB@12-30 MHz
Front to back ratio	10 dB nominal
Nominal VSWR (with respect to 50Ω)	2.5:1
Input impedance	50
Input connector	N female
Half power beam widths (free space)	
E plane (average)	70°
Vertical angle of maximum radiation	
Low frequency	35°
High frequency	8° *

* At a phase center height of 63feet/19.2 meters

Typical VSWR Chart



*VSWR depends upon the height of the antenna above ground, ground conditions, and the influence of other structures or antennas in the vicinity. The specification is for ideal conditions.