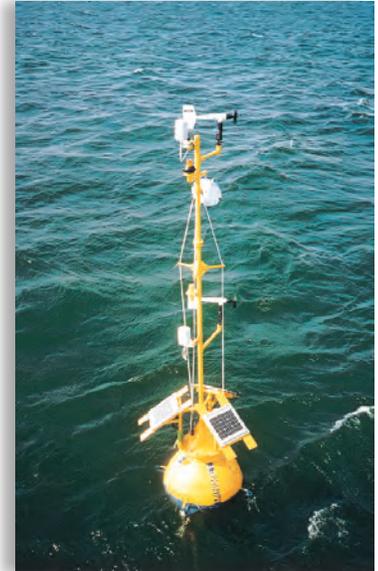


Omni Full Wave Antenna



FEATURES

- ▶ Maximum gain at low elevation angles - optimally shaped pattern for maximum gain just above the horizon (where path losses are minimal)
- ▶ Rust resistant fully sealed to environment G-10 fiberglass radome & a white two-part polyurethane paint finish for long life under hostile atmospheric conditions
- ▶ Improved performance over the half-wave for all low-orbiting satellite applications
- ▶ Optimum performance for DCPs at higher latitudes & w/ look angles above 45° elevation
- ▶ Hemispherically Omni Directional, Full-Wave Quadrafilar Helix Antenna with Right-Hand Circular Polarization
- ▶ Antenna pointing not required since antenna is mounted vertically; no additional alignment necessary
- ▶ Multiple satellite coverage w/any antenna position
- ▶ Light weight, resonant
- ▶ Superior axial ratio, SWR, & bandwidth



SPECIFICATIONS

Specifications subject to change without notice	
Antenna Type	Omni Directional Antenna
Polarization	Right Hand Circular
Frequency	401 MHz Nominal
Bandwidth	4 MHz Minimum
Input Power	50 Watts Maximum
SWR	1.5 Maximum
Axial Ratio	5 dB Maximum
Gain	3.5 dBic Minimum
Polarization	Right-Hand Circular
½ Pwr Beamwidth	185° Nominal
Connector	Type N Jack
Environmental	
Wind	100 knots
Ice & Snow	100 lbs/ft ²
Rain	5"/hour
Temperature	-65°C to +65°C
Relative Humidity	0 - 200%
Altitude	-1,000 to +15,000 ft MSL
Mechanical	
Mounting	4 ¼" flange w/6 evenly spaced holes on 3 5/8" dia. bore center for ¼" bolt
Weight	2.0 lbs maximum
Size	3.0" dia. x 28.3" lng x 4.25" base flange & connector
Effective Wind Area	0.47 ft ²
ORDERING	
5000-0021-1	Antenna, Full Wave OMNI-Directional Satellite
6411-1162-1	Cable Assy, Antenna, 15 ft.
Shipping Size	35" H x 6" W x 6" D

APPLICATIONS

- ▶ Ideal for Buoy Applications
- ▶ Mobile Satellite Platforms
- ▶ ARGOS platforms
- ▶ Radiosonde Receivers
- ▶ Transit Navigation Receivers Sites needing illumination of multiple satellites
- ▶ High Latitude Geostationary Satellite Coverage

INSTALLATION INFORMATION

- ▶ When mounting an Omni antenna on a side arm of a tower, do not mount the antenna close to the metal structure. Place the antenna at least three to four feet from the side of the tower, more if possible. This minimizes the distortion of the antenna pattern allowing maximum gain.
- ▶ To maximize the service life of the installation, always apply waterproof or antenna sealant tape to the RF connector once the coaxial cable has been connected to the base.