

Yagi Antennas

GOES, METEOSAT/GMS

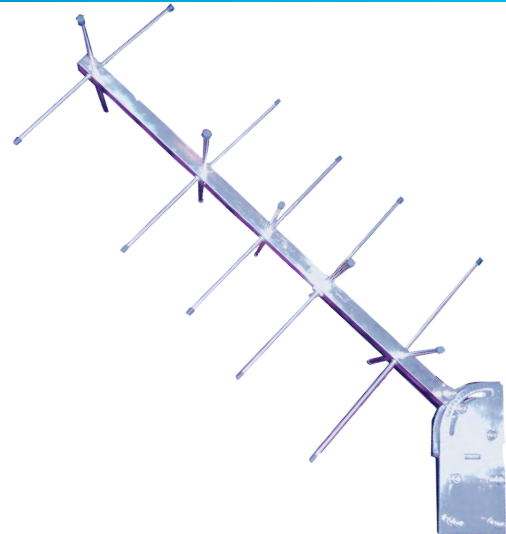
Domestic & International Channels



Transmits from a Data Collection Platform (DCP) to
GOES (Geostationary Operational Environmental
Satellite) & METEOSAT/GMS Satellites

FEATURES

- ▶ Made of rust resistant materials
- ▶ Moisture-proof (0-100% Relative Humidity)
- ▶ Can be assembled in a few minutes
- ▶ 50000-0080/5000-0081: Beamwidth wide enough to illuminate at least two of the GOES satellites- either the GOES East and the GOES Central or the GOES West and the GOES Central when pointed midway between the satellites
- ▶ 5000-0155/5000-0156: Any applications requiring high gain directional uplink antennas transmitting to METEOSAT/GMS satellite DCPs (domestic and international channels)
- ▶ High gain allows operation with DCPs transmitting at less than 10 Watts with 8.5 Watts typical output.
- ▶ Base of antenna can be installed on a standard 2 inch (2.5 inch max O.D.) vertical pipe providing a 360 degree azimuth and 180 degree elevation adjustment range
- ▶ Element replacement kits available



APPLICATIONS

- ▶ GOES/METEOSAT/GMS satellite DCPs (domestic and international channels)
- ▶ Any applications requiring high gain directional uplink antennas

SPECIFICATIONS

Parameter	
Antenna Type	Crossed Yagi
Polarization	Right Hand Circular
Gain	10.0 dB
Center Freq.	401.8 MHz
1/2 Power Beam Width	45 deg nom.
Bandwidth	2 mHz typ.
SWR	1.5 :1 Max
Input Impedance	50 Ohms
Axial Ratio	4 dB
Lightning	Antenna & elements at DC ground
Wind Survival	100 knots
Ice and Snow	100 lbs. per sq. foot
Connector	Type-N Female
Temperature	-.65°C to +65°C
Relative Humidity	0-100%
Weight	5000-0080: 6 lbs. (2.73 kg) 5000-0155: 4 lbs (1.81 kg) 5000-0156: 8 lbs (3.63 kg)
Dimensions	10.5 in. x 10.5 in. x 43.3 in. (27cm. x 27cm. x 110cm.)

ORDERING

Part #	Description
5000-0080	Antenna, Yagi Satellite
5000-0081	Antenna, Yagi Satellite with Stainless Steel Elements
5000-0155-1 AL	Antenna, Yagi Satellite, Aluminum
5000-0156-1 SS	Antenna, Yagi Satellite, Stainless Steel Mast & Elements
6411-1162-1	Cable assy antenna 15 ft.
5000-0082	Element kit for 5000-0080 (set of 20)
5000-0083	SS element kit for 5000-0081 (set of 2)

INSTALLATION INFORMATION

For sites located near the ocean, use the 5000-0081 or 5000-0156 version with stainless steel elements. For sites susceptible to chemically corrosive environments, use the 5000-0081 or 5000-0156. Use the Antenna Pointing Guide to determine the proper elevation and azimuth for pointing the antenna at the satellite. Mispointing of the antenna may cause poor communication or no communication at all.