

# YAGI GOES SATELLITE ANTENNA

## 5000-0080 & 0081



TRANSMITS FROM DATA  
COLLECTION PLATFORM (DCP)  
TO GOES (GEOSTATIONARY  
OPERATIONAL ENVIRONMENTAL  
SATELLITE)

### FEATURES

- ▶ Made of rust resistant materials
- ▶ Moisture-proof
- ▶ Can be assembled in a few minutes
- ▶ 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
- ▶ 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

### ORDERING

5000-0080	Antenna, Yagi Satellite
5000-0081	Antenna, Yagi Satellite with Stainless Steel Elements
ACCESSORIES	
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 20)

### HELPFUL HINTS

For sites located near the ocean, use the 5000-0081 version with stainless steel elements. For sites susceptible to chemically corrosive environments, use the 5000-0081. Use the Antenna Pointing Guide on page 144 to determine the proper elevation and azimuth for pointing the antenna at the satellite. Misspointing of the antenna may cause poor communication or no communication at all.



### APPLICATIONS

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

### SPECIFICATIONS

Specifications subject to change without notice

<b>Antenna Type</b>	Crossed Yagi
<b>Polarization</b>	Right Hand Circular
<b>Gain</b>	10.0 dB
<b>Center Freq.</b>	401.8 MHz
<b>1/2 Power Beam Width</b>	45 deg nom.
<b>Bandwidth</b>	2 mHz
<b>SWR</b>	1.5 :1 Max
<b>Input Impedance</b>	50 Ohms
<b>Axial Ratio</b>	4 dB
<b>Lightning</b>	Antenna & elements at DC ground
<b>Wind Survival</b>	100 knots
<b>Ice and Snow</b>	100 lbs. per sq. foot
<b>Connector</b>	Type-N Female
<b>Temperature</b>	-65 to +65°C.
<b>Weight</b>	6 lbs (2.73 kg)
<b>Size</b>	10.5 in. x 10.5 in. x 43.3 in.