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
- 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.

ORDERING

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5000-0080</td>
<td>Antenna, Yagi Satellite</td>
</tr>
<tr>
<td>5000-0081</td>
<td>Antenna, Yagi Satellite with Stainless Steel Elements</td>
</tr>
<tr>
<td>5000-0155-1 AL</td>
<td>Antenna, Yagi Satellite, Aluminum</td>
</tr>
<tr>
<td>5000-0156-1 SS</td>
<td>Antenna, Yagi Satellite, Stainless Steel Mast &amp; Elements</td>
</tr>
<tr>
<td>6411-1162-1</td>
<td>Cable assy antenna 15 ft.</td>
</tr>
<tr>
<td>5000-0082</td>
<td>Element kit for 5000-0080 (set of 20)</td>
</tr>
<tr>
<td>5000-0083</td>
<td>SS element kit for 5000-0081 (set of 2)</td>
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</tbody>
</table>

SPECIFICATIONS

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