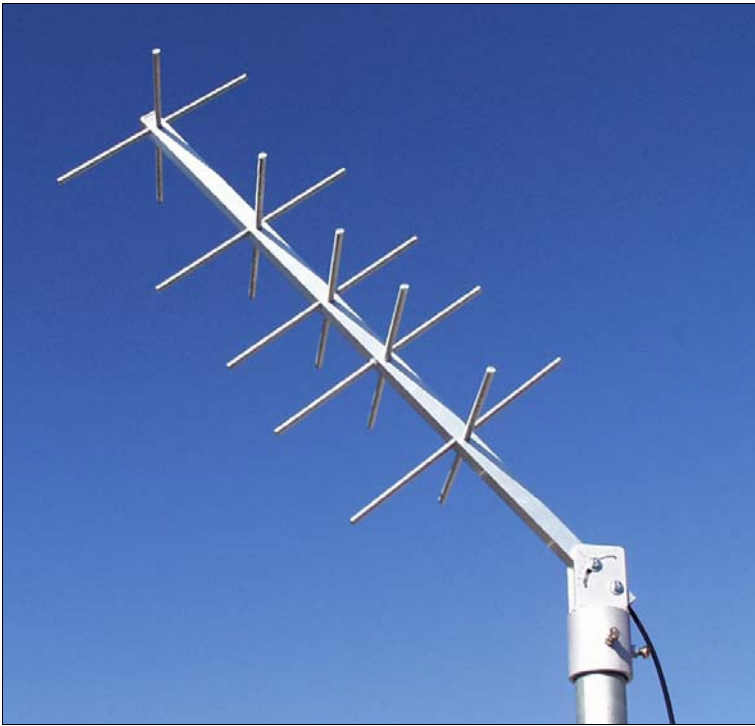


## **Model H-223**

401.8 MHz GOES Satellite Antenna



The **WATERLOG<sup>®</sup>** H-223 is a rugged, high-gain Yagi antenna designed for use with fixed location GOES Satellite Data Collection Platforms. The antenna has two 5-element Yagi antennae mounted on an extruded aluminum boom. The dipole elements are driven from an internal impedance and phase matching circuit.

### **KEY FEATURES**

- High gain
- Circular polarization compatible with GOES satellite
- Rugged, heavy duty construction
- Fully adjustable mount (0 - 90° elevation, 0 - 360° azimuth)
- Mount fits on a 2-in. pipe mast
- One-piece passive electrodes lock firmly into place with a unique ½-turn cam-lock mechanism
- Can be disassembled for easy transport and shipping



**Rugged Construction**

# SPECIFICATIONS

## Electrical

|               |                                         |         |
|---------------|-----------------------------------------|---------|
| Frequency:    | 401.8 MHz                               | nominal |
| Gain:         | 11.0 dBd                                | nominal |
| VSWR Range:   | From 1 to 1.25                          |         |
| Axial Ratio:  | <3dB                                    |         |
| Polarization: | Right-Hand, Circular                    |         |
| Impedance:    | Nominally 50 Ohms                       |         |
| Connector:    | Type N Jack on 24 in. LMR-240 leadcable |         |

## Construction

|                       |                                               |
|-----------------------|-----------------------------------------------|
| Material:             | Aluminum                                      |
| Mount:                | Fits on 2.0-in. pipe mast (2.40 in. OD max)   |
| Boom:                 | 1 in. square                                  |
| Elements:             | 3/8 in. aluminum rod                          |
| Azimuth Adjustment:   | 360°                                          |
| Elevation Adjustment: | 0-90°                                         |
| Size:                 | 38 in. long x 14.75 in. wide x 14.75 in. high |
| Weight:               | 4.0 lbs. including mount                      |
| Shipping size:        | 4 in. x 4 in. x 48 in. long paperboard tube   |

## PLEASE READ!!! *An important note about antennas.*

An antenna must be viewed as a system. This antenna system has either an input connector mounted directly on the antenna beam, or it has a connector at the end of a pigtail; which serves as the antenna Input. The output of this antenna is the electromagnetic energy wave that is beamed into free space.

It is important to understand this "pigtail" is part of the antenna system. So, just as you would not alter the length of any of the array elements on the beam, you must not alter the length of the "pigtail".

An H-223 is set up and checked at the factory to be within a certain range of impedance before it is shipped. This is done to minimize the VSWR for your installation. Yes, you can connect a 50 ohm cable you have to the H-223's pigtail connector without any problems, but DO NOT physically alter the connector or the length of the "pigtail" itself.

## Warranty

The **WATERLOG®** H-223 is warranted against defects in materials and workmanship for one year from date of shipment.

## Note

Specifications subject to change without prior notice due to on going commitment to product testing and improvement. LR July 28, 2003

