

ISM Sector Panel Antennas

The WISP sector panel provides coverage of 2.4 GHz to 2.5 GHz frequencies with a VSWR performance of less than 1.5:1. Its design provides superior front-to-back ratio performance that ensures that the radiated energy is focused towards its coverage area.

The WISP24017MBH provides vertical or horizontal polarization options, featuring field adjustable horizontal beamwidths of 60° or 90°. Its efficient gain performance and compact UV resistant housing provide outstanding coverage and maximum installation flexibility where tower space is limited. In addition, it includes an adjustable pipe mount that permits +/-15° uptilt or downtilt of the antenna to adjust to the requirements of the coverage area.

Features

- Adjustable multiple beamwidth sectors of 45°, 60°, 90° and/or 120°
- Outstanding front-to-back ratio ensures that the radiated energy is targeted towards the area of coverage, and not out of it where it could be prone to interference.
- Included adjustable pipe mount permits uptilt or downtilt adjustment of +/-15° for more precise coverage of the geographic area.
- Models are available for vertical and horizontal polarization.
- Industry leading front-to-back ratios. Ensure that the radiated energy is focused towards its target, and not to the back or sides of the antennas.
- Attractive, streamline design reduces wind loading for easier handling during installation.



The WISP model antennas horizontally polarized sector panel antenna allows horizontal beamwidth adjustments of 45°, 60°, 90° and 120° without having to replace the antenna.



WISP24013120PTNF



WISP2401490PTNF



Technical Data

General Specifications: Horizontal polarization sector panel antenna User adjustable beamwidth. Optional 45° director flaps sold separately.
Maximum Power Input: 20 watts (WISP24017MBH only) 30 watts (All models except WISP24017MBH)
Polarization: Horizontal (WISP24017MBH) Vertical (WISP2401490PTNF and WISP24013120PTNF)
Nominal Impedance: 50 ohms
VSWR: < 1.5:1
Radome Material: Gray UV resistant plastic
Lighting Protection: DC grounded
Backplane: High strength aluminum extrusion
Termination: N, female bulkhead
Mounting Method: Adjustable pipe mount (included)

Antenna Electrical Specifications

Model	Frequency Range	Nominal Gain +/- .5	Horizontal Plane Beamwidth	E-Plane Beamwidth	Front-to-Back Ratio	Typical Cross Poll Discrimination	Polarization
WISP24017MBH	2.4-2.5 GHz	13, 14, 16 or 17 dBi user selectable	120°, 90°, 60°, 45°	15°	> 30 dB @ 120°, 90°, 60° > 26 dB @ 45°	> 26 dB	Horizontal
WISP2401490PTNF	2.4-2.48 GHz	14 dBi	90°	14°	> 23 dB	> 20 dB	Horizontal
WISP24013120PTNF	2.4-2.48 GHz	13 dBi	120°	16°	> 23 dB	> 20 dB	Vertical

Mechanical Specifications

Model	Dimensions	Weight (Mass)	Temperature Range	Rated Wind Velocity	Lateral Thrust at Rated Wind	Equivalent Flat Plate Area
WISP24017MBH	24" L x 7" W x 3" D (609 x 178 x 76 mm)	4.5 lbs (2.1 Kg)	-30°C to 75°C	125 mph	60 lbf without flaps 120 lbf with flaps	.44 ft ² without flaps 1.36 ft ² with flaps
WISP2401490PTNF	19.8" L x 3.1" W x 1.5" D	2.5 lbs	-30°C to 75°C	125 mph	25.4 lbf @ 125 mph	0.28 ft ²
WISP24013120PTNF	19.8" L x 3.1" W x 2.2" D	2.5 lbs	-30°C to 75°C	125 mph	25.4 lbf @ 125 mph	0.28 ft ²