

Instruction Sheet

PA24 Flat Panel Directional Antenna

2400 to 2483 MHz Operation

Step 1: Decide if Horizontal Polarity (HPOL) or Vertical Polarity (VPOL) is required. The polarity is changed by mounting the bracket to different screw positions on the back of the antenna. Follow the indicator label. Also you can see the orientation using the embossed feature on the front of the antenna. When the large embossed line is vertical, the antenna is vertically polarized.

Step 2: Assemble the bracket to the antenna using two screws provided.

Step 3: Install the antenna assembly to the pole using the bracket clamp. Note: the antenna can also be surface mounted by removing the pole clamp and installing the bracket to a wall using lag bolts.

Step 4: Adjust rotation and tighten the pole clamp. Adjust tilt and then tighten the two tilt adjustment bolts.

Step 5: Attach the RF cable to the antenna N Female connector. Waterproof the connection using self annealing rubber tape (or equivalent) and then wrapping with electrical tape.



Pole Mount



Surface Mount

Specifications

Parameter	Model	Min	Typ	Max	Units
Frequency Range		2400		2483	MHz
Gain	PA24-13 PA24-19		13 19		dBi
Horizontal Beamwidth	PA24-13 PA24-19		35 17.5		Deg
Vertical Beamwidth	PA24-13 PA24-19		35 17.5		Deg
Front to Back	PA24-13 PA24-19	20 30			dB
Cross Polarization			20		dB
Input Return Loss (S₁₁)			-14		dB
VSWR			1.5:1		
Impedance			50		OHM
Input Power				100	W
Operating Temperature		-40		+70	Deg C
Pole Size		1" (25)		2.5" (64)	In (mm)
Weight	PA24-13 PA24-19		17.6 (0.5) 60 (1.7)		oz (kg)
Dimension (Dia x Depth)	PA24-13 PA24-19		7.5" x 7.5" x 0.8" (190 x 190 x 20) 15.4" x 10.6" x 0.8" (390 x 270 x 21)		In (mm)
Bracket Tilt			45		Deg



PA24-13 VPOL



PA24-19 VPOL

Wind Loading				
Model	Sq. In	100MPH	125MPH	100MPH with 1/2" radial ice
PA24-13	56	14 lbs	22 lbs	14 lbs
PA24-19	163	41 lbs	64 lbs	41 lbs

Antenna Patterns @ 2.4GHz

