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PD220 Series *Specifications*

ELECTRICAL SPECIFICATIONS

	PD220-1	PD220-2	PD220-3A	PD220-3B	PD220-4	PD220-5
Frequency Range- MHz	136-141	142-150	150.5-158.5	151.5-159.5	155-163	157-165
Gain - dBd (dBi)	5.25 (7.4)					
Bandwidth - MHz for 1.5:1 VSWR	5	8				
Vertical Beamwidth - Degrees	18					
Polarization	Vertical					
Maximum Power Input - Watts	500					
Electrical Tilt - Degrees	0					
Lightning Protection	Direct Ground					
Termination - Direct Fixed	UHF-female					
Flexible Extension	18" RG8 N-Male UHF-Male					

ELECTRICAL(cont.)	PD220-6	PD220-7	PD220-8	PD220-8A	PD220-8B	PD220-9	PD220-DT
Frequency Range - MHz	160-169	165-174	216-225	216-221	220-225	279-281	136-174
Gain - dBd (dBi)	5.25 (7.4)		6 (8.1)				5.0 (7.1)
Bandwidth - MHz for 1.5:1 VSWR	9			5		2	1.5
Vertical Beamwidth - Degrees	18		16				18
Polarization	Vertical						
Maximum Power Input - Watts	500						
Electrical Tilt - Degrees	0						3,6
Lightning Protection	Direct Ground						
Termination - Direct Fixed	UHF-female						
Flexible Extension	18" RG8 N-Male UHF-Male						

MECHANICAL SPECIFICATIONS

	PD220-1	PD220-2	PD220-3A	PD220-3B	PD220-4	PD220-5
Overall Length- ft.(m)	20.0(6.1)	19.2(5.87)	20.7(6.31)	20.8(6.35)	20.2(6.14)	20.0(6.1)
Element Housing Length- ft.(m)	17.6(5.37)	16.8(5.13)	18.6(5.66)	18.6(5.66)	17.9(5.47)	17.8(5.42)
Support Pipe Diameter- in.(m)	2.75(0.07)					
Support Pipe Length- ft.(m)	2.33(0.71)		2.25(0.69)		2.17(0.66)	
Weight- lbs(kg)	25(11.3)		24(10.8)			22(10.0)
Radiating Element Material	Copper					
Element Housing Material	Fiberglass					
Support Pipe Material	Aluminum Alloy					
Max Wind Loading Area (Flat Plate Equivalent)- ft2(m2)	2.27(.211)	2.17(.202)	2.34(.217)		2.26(.210)	2.24(.208)
Rated Wind Speed - mph (km/hr)	100(161)					
Bending Moment @ Rated Wind 1 in. Below Top of Support Pipe ftlbf(N m)	808(1095)	738(1000)	882(1196)		813 (1102)	809 (1096)
Side Thrust @ Rated Wind - lbf (N)	91(405)	87(387)	94(418)		90 (400)	
Mounting Hardware- Supplied	PD46					
Mounting Hardware- Optional	PD241, PD246, PD556,PD503, PD561					

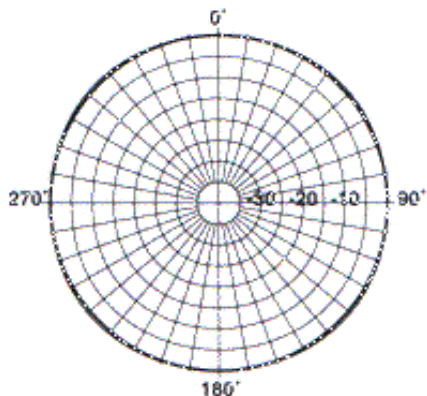
MECHANICAL (cont.)	PD220-6	PD220-7	PD220-8	PD220-8A	PD220-8B	PD220-9	PD220-DT
Overall Length- ft.(m)	19.5(5.94)	19.0(5.79)	18.8 (5.73)			15.1 (4.62)	20.0 (6.1)
Element Housing Length- ft.(m)	17.4(5.31)	17.0(5.17)	16.6(5.05)			12.9(3.93)	17.6(5.37)
Support Pipe Diameter- in.(m)	2.75 (0.07)						
Support Pipe Length- ft.(m)	2.08(0.64)		2.25 (0.69)				2.33 (0.71)
Weight- lbs(kg)	22(10.0)		21 (9.5)				23 (10.5)
Radiating Element Material	Copper						
Element Housing Material	Fiberglass						
Support Pipe Material	Aluminum Alloy						
Max Wind Loading Area (Flat Plate Equivalent)- ft2(m2)	2.20(.204)	2.14(.199)	2.12(1197)	1.77(0.16)		1.72(.160)	2.27 (.211)
Rated Wind Speed- mph(km/hr)	100 -161						
Bending Moment @ Rated Wind 1 in. Below Top of Support Pipe ft lbf(N m)	773 (1048)	738 (1001)	713(966)	595(807)		451(611)	808 (1096)
Side Thrust @ Rated Wind- lbf(N)	88 (391)	86 (383)	85(377)	71(315)		69(307)	91 (404)
Mounting Hardware- Supplied	PD46						
Mounting Hardware- Optional	PD241, PD246, PD556,PD503, PD561						

SHIPPING SPECIFICATIONS

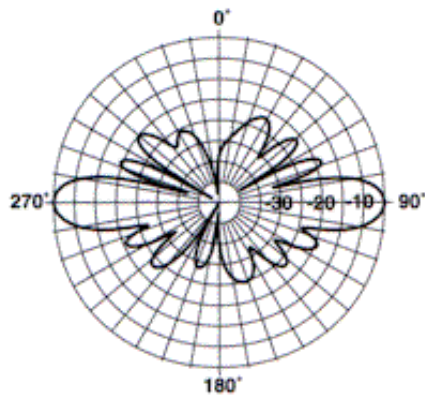
	PD220-1	PD220-2	PD220-3A	PD220-3B	PD220-4	PD220-5
Shipping Weight- lbs.(kg)	57.0 (25.9) 4	8.0 (21.7)	55.0 (24.9)		57.0 (25.9)	51.0 (23.1)
Shipping Dimensions of Antenna- WxDXH- ft.(m)	22.3x0.33x0.33 (6.8x0.10x0.10)	21.0x0.33x0.33 (6.4x0.10x0.10)			22.0 x 0.33 x 0.33 (6.7 x 0.10 x 0.10)	
Shipping Dimensions of Accessory -WxDxH	Packed w/antenna					
Shipping Mode	Common Carrier					

SHIPPING (CONT)	PD220-8B	PD220-6	PD220-7	PD220-9	PD220-8	PD220-8A	PD220-DT
Shipping Weight-lbs. (kg)	57.0 (25.9)			40.0(18.1)	57.0 (25.9)	51.0 (23.1)	58 (26.4)
Shipping Dimensions of Antenna WxDXH- ft.(m)	21.0x0.33x0.33 (6.5x0.10x0.10)	20.8x0.33x0.33 (6.4x0.10x0.10)		16.8X0.33X0.33 (5.1X0.10X0.10)	21.0x0.33x0.33 (6.5x0.10x0.10)		23.0x0.33x0.33 (7.0x0.10x0.10)
Shipping Dimensions of Accessory WxDxH - ft. (m)	Packed w/antenna						
Shipping Mode	Common Carrier						

PD220 Horizontal Pattern



PD220 Vertical Pattern



WISCO International, Inc. - MIAMI, FL U.S.A.

Fax: (954) 370-3997 | E-mail: wiscontl@wiscontl.com

