

P3 SERIES

DIRECTIONAL 3 ELEMENTS FM BROADCAST ANTENNA





General. The P3 Vertical Polarization Directional Antenna series is designed for FM Brooadcast Band (873,5 - 108 MHz). Each antenna is made with stainless steel (PX3 models) or resistant aluminum alloy (P3 models).

Directional. The radiation pattern is directional narrow lobe (see horizontal pattern in the next page).

Antenna systems. By stacking more antennas it is possible to obtain customized patterns, to increase the gain and the power handling capacity according to user's requirements

Custom patterns, electrical beam tilt an null designs are available upon request

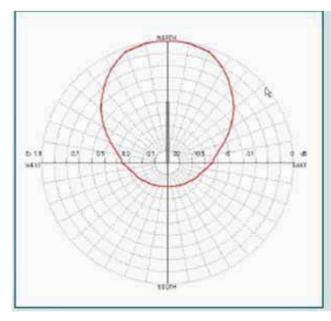
Broadband. Suitable for single channel or broadband operations with multi channel combiners.

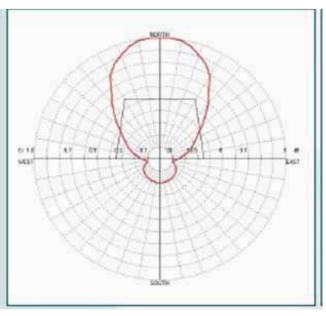
Easy installation. The standard mounting brackets are designed for instant installation on poles with diameters from 32 mm to 90 mm. Special brackets are available upon request.

Water, icing, moisture protection. The input connector is protected against rain and icing a special housing. The internal balun is also protected against water, icing and moisture by a sealed housing.

State of the art mechanical design. By employing the finest materials (stainless steel, non-corrosive aluminum alloy, marine brass, virgin PTFE) , it is assured a longer life service.

Lightning resistance is assured by the DC ground potential of the entire antenna.





Horizontal Pattern

Vertical Pattern



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Technical Parame	eters	
RF DATA	Frequency Range	87.5 - 108.0 MH
	Bandwidth	Broadban
	Polarization	Vertica
	Connectors	
	P3-N	N fema
	P3-7/16	DIN 7/16
	P3-7/8	EIA 7/8
	Maximum Input Power	
	P3-N	0.8 k\
	P3-7/16	1.5 k\
	P3-7/8	4 k\
	Gain (at mid band, ref. to λ/2 dipole)	5.2 c
	VSWR (in the whole band)	< 1.35
	Impedance	50
	Frontal to back ratio	> 21 c
	Wind load (ref 150 Km/h)	
	Frontal	19 k
	Lateral	34 h
	Grounding	Via clamp
	Horizontal Beam width (at -3 dB, at mid band)	84
	Vertical Beam width (at -3 dB, at mid band)	62
MECHANICALS	Materials	
	P3 Anodized	Aluminu
	PX3 Stainless Steel Pole diameter	32 - 90 mm (others on reques
	Dimensions (HxWxD)	1750x40x1250 m
	Weight (with pole clamp):	
	P3	5.0 k
	PX3	8.0 k

Technical Parameters						
Model	Number Of Antennas	Maximum Power (P)	Gain (dBd)	Weight (KG) P3-PX3	Vertical Dimensions (mt)	
P3-N-2	2	1.600	+ 8.1	10.0 – 16.0	4.25	
P3-N-3	3	2.400	+ 9.8	15.0 – 24.0	6.75	
P3-N-4	4	3.200	+ 10.9	20.0 - 32.0	9.25	
P3-N-6	6	4.800	+ 12.2	30.0 - 48.0	14.25	
P3-N-8	8	6.400	+ 13.4	40.0 - 64.0	19.25	
P3-7/16-2	2	3.000	+ 8.1	10.0 – 16.0	4.25	
P3-7/16-3	3	4.500	+ 9.8	15.0 - 24.0	6.75	
P3-7/16-4	4	6.000	+ 10.9	20.0 - 32.0	9.25	
P3-7/16-6	6	9.000	+ 12.2	30.0 - 48.0	14.25	
P3-7/16-8	8	12.000	+ 13.4	40.0 - 64.0	19.25	
P3-7/8-2	2	8.000	+ 8.1	10.0 - 16.0	4.25	
P3-7/8-3	3	12.000	+ 9.8	15.0 – 24.0	6.75	
P3-7/8-4	4	16.000	+ 10.9	20.0 - 32.0	9.25	
P3-7/8-6	6	24.000	+ 12.2	30.0 - 48.0	14.25	
P3-7/8-8	8	32.000	+ 13.4	40.0 - 64.0	19.25	

DIPOLES ARRANGEMENT

