



305 Broadcast AKG/1

- AKF/1 - AKS/1 - AKH/1

Vertical Polarization
Omnidirectional
Antenna

User Manual



This manual provides important guidelines for installing. Review this information carefully for proper installation. Both unit specifications and manual contents are subject to change without notice.

MOUNTING INSTRUCTIONS

These wide band FM antennas, made of Stainless steel or Aluminium Alodyne 120, are particularly recommended for low / medium Output Power Transmitters.

BAYS	DB	ANTENNA	WEIGHT	WIND. VEL.	WIND. LOAD
	GAIN	Vert. dimensions	Kg	Km/h	Kg
1	2.0	1,5 mt	7	160	10
2	5.0	4,1 mt	14		
4	8.0	9,3 mt	28		
6	9.5	14,5 mt	42		
8	11.0	19,7 mt	56		

SUGGESTED MAST SECTION

Is suggested install this Dipole Antenna over poles or guyed mast because the section higher than 110mm can increase the SWR value and modify the radiation pattern.

DISTANCE ESTIMATION BETWEEN FM ANTENNA BAYS

Wave Length = $\lambda = 300 : f(\text{MHz})$

Distance between antenna bays (any antenna types) = d

d (suggested) = $\lambda \times 0.85$

Examples

88MHz $\Rightarrow \lambda = 300 : 88 = 3.41 \text{ mt} \quad \Rightarrow d = 3.41 \times 0.85 = 2.9 \text{ mt}$

98MHz $\Rightarrow \lambda = 300 : 98 = 3.06 \text{ mt} \quad \Rightarrow d = 3.06 \times 0.85 = 2.6 \text{ mt}$

108MHz $\Rightarrow \lambda = 300 : 108 = 2.78 \text{ mt} \quad \Rightarrow d = 2.78 \times 0.85 = 2.36 \text{ mt}$

Distance d suggested 2.6mt even if working frequency is Mid FM Banda



