Model : ACP0H

- Band II
- FM Band 87.5÷108 MHz
- Horizontal Polarization
- Omnidirectional Pattern
- Tuned antenna
- No Pressurization Needed
- Economical
- Digital Ready
- Stainless steel AISI 304

ELECTRICAL DATA

Frequency range	87.5÷108 MHz
Impedance	50 Ohm
Connectors	N female
Max Power	700W
VSWR ± 100KHz	≤ 1.1:1
Polarization	Horizontal
Gain	-0.3 dB (ref.to to half wave dipole)
Pattern	Omnidirectional ±1.5 dB with 100 mm dia. pole
Lightning protection	All metal parts DC grounded

MECHANICAL DATA

Dimensions	360x360x100 mm
Net Weight	2 Kg without clamp
Wind surface	0.0384 m^2
Wind load	6,5 kg (wind speed at 160 km/h)
Max wind velocity	220 km/h.
Materials	External parts: stainless steel, Plexiglas Internal parts: silver plated brass
Mounting	With special pipe clamps 50 ÷ 110 mm dia.

Radiations systems with ACP0H antenna

Collinear systems

MECHANICAL DATA

Height of array	Subject to number of bays (refer to table)
Total net weight	Refer to table
Wind load	Refer to table
Pressurizzable	Yes (on request)
Mounting hardware	Hot dip galvanized steel clamps
Shipping	As required

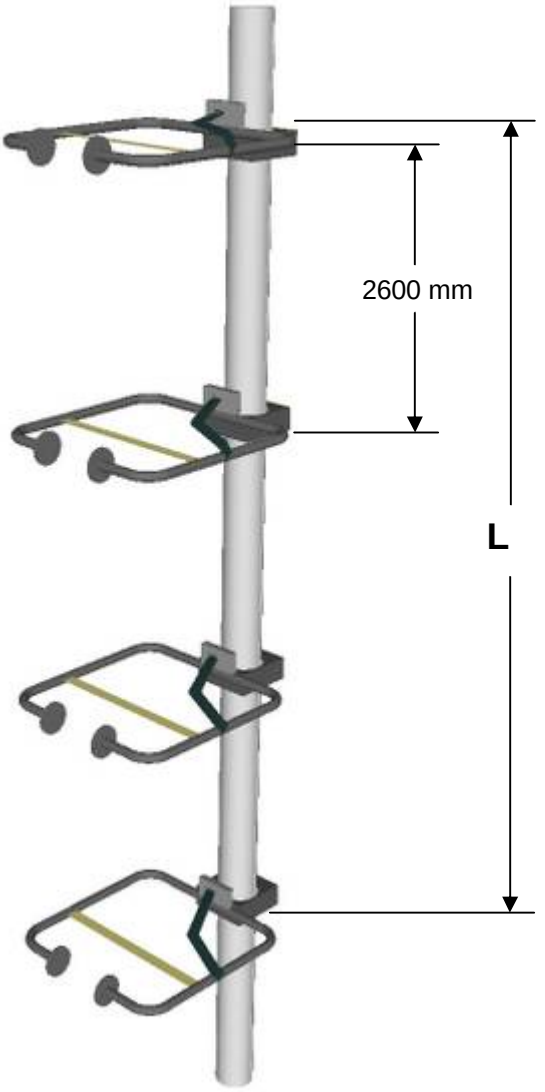
ELECTRICAL DATA

Frequency range	87.5÷108 MHz
Impedance	50 Ohm
Connector	N female
VSWR ± 100KHz	1.1:1 in the operating channel
Polarization	Horizontal
Gain	Refer to table
Horizontal pattern	Any type according to requirements
Vertical pattern	Null fill, beam tilt and special requirements to order
Other facilities	The antenna system can be supplied in split feed with two equal half antennas. Each half can accept full power.

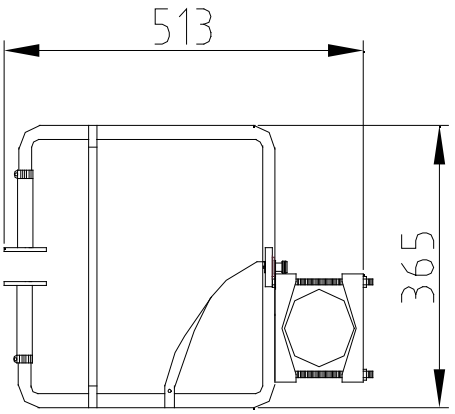
TECHNICAL DATA

Number of bays	Dipoles per bay	Gain[1]		Weight[2] Kg	Antenna height L m	Wind load (v=160 km/h) kg
		dB	times			
2	1	1.78	1.51	4	2.7	13.0
4	1	4.76	2.99	6	5.3	19.5
6	1	6.52	4.48	8	7.9	26.0
8	1	7.76	5.9	12	13.1	39.0
10	1	8.7	7.5	16	18.3	52.0

[1] referred to a half wave dipole. Attenuation of connecting cables not taken into account.
[2] without mounting hardware



DIMENSIONS



- Gain is provided for Horizontal polarization.
- When antenna is pole mounted on the top a tower the horizontally polarized radiation pattern is omni - directional.
- If the antenna is side mounted, the supporting structure will have a slight effect on the radiation pattern and VSWR.
- Vertical tower space, wind load and weight numbers given are typical. Actual values vary with the specific installation. Contact us for more details of your installation.
- Gain will be reduced if null fill, beam tilt or special wavelength spacing is provided.
- Antenna radiation aperture is the distance from the centre of the top bay to the centre of the bottom bay.
- Five ft(1.6mt) of pipe required above the top bay and below the bottom bay for to protect from pattern interference by other antennas.
- Antenna wind load is calculated for 100 Mph (160Km/h) per EIA-222-C standard.