

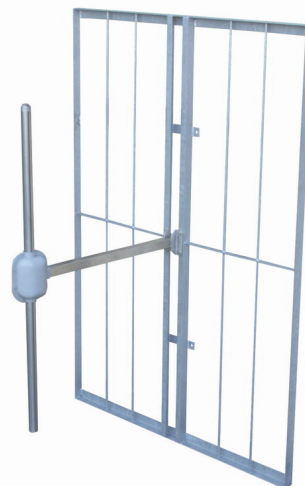
# FM-01

## FM PANEL ANTENNA



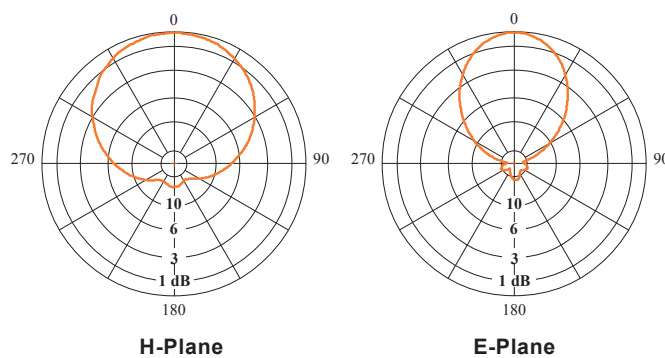
### FEATURES

- VERTICAL OR HORIZONTAL POLARIZATION
- BROADBAND 87.5 ÷ 108 MHz
- 4.5 dB GAIN
- DIRECTIONAL PATTERN
- STAINLESS STEEL DIPOLE



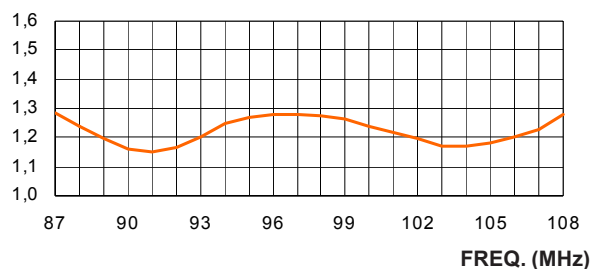
ELECTRICAL DATA		
ANTENNA TYPE	FM-01	FM-01/E
FREQUENCY RANGE	87.5 ÷ 108 MHz	
IMPEDANCE	50 ohm	
CONNECTOR	7/8" EIA	
MAX POWER	5 kW	
VSWR	≤ 1.3	
POLARIZATION	Vertical or Horizontal	
GAIN(referred to half wave dipole)	4.5 dB	
HALF POWER BEAMWIDTH	E-Plane ± 35° H-Plane ± 56°	
LIGHTNING PROTECTION	All Metal Parts DC Grounded	

RADIATION PATTERNS (Mid Band)

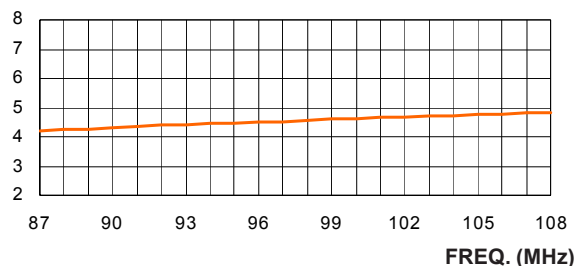


MECHANICAL DATA		
DIMENSIONS	2000x1400x1018 mm	2000x1400x983 mm
WEIGHT	38 kg	37.5 kg
WIND SURFACE	0.35 m <sup>2</sup>	
WIND LOAD (at 150 km/h)	0.51 kN	
MAX WIND VELOCITY	220 km/h	
MATERIALS	Reflector (hot dip galvanized steel) Dipole (stainless steel) Internal parts (silver plated brass, polished brass, deoxidized aluminium) Radome (fiberglass)	
ICING PROTECTION	Feed point radome (only for FM-01)	
RADOME COLOUR	Gray (standard)	
MOUNTING	Directly on supporting mast or with pipe clamps (not supplied)	
PACKING	2090x1490x350 mm	

VSWR



GAIN (dB)



### FEATURES

- RADIATING SYSTEMS WITH FM-01 SERIES
- DIRECTIONAL PATTERNS
- HIGH POWER SYSTEMS
- BROADBAND 87.5 ÷ 108 MHz

ELECTRICAL DATA	
FREQUENCY RANGE	87.5 ÷ 108 MHz
IMPEDENCE	50 ohm
CONNECTOR	EIA flange according to system power rating
POWER RATING	The antenna system can accept any power according to requirements
VSWR	≤ 1.3 Throughout the frequency range (Lower figures for individual channels on request)
POLARIZATION	Vertical or Horizontal
GAIN	According to requirement
VERTICAL PATTERN	Null fill, beam tilt and special requirements to order
OTHER FEATURES	The antenna system can be supplied in split feed configuration (two equal halves). Each half can accept full power.

MECHANICAL DATA	
HEIGHT OF ARRAY	Subject to number of bays
TOTAL NET WEIGHT	Refer to table
WIND LOAD	Refer to table
PRESSURIZABLE	Yes
RADOME COLOUR	Gray (standard)
MOUNTING HARDWARE	Not supplied
SHIPPING	As required

TECHNICAL DATA							
NUMBER OF BAYS	PANELS PER BAY	GAIN dB (1)	GAIN TIMES (1)	WEIGHT kg (2) (FM-01)	WEIGHT kg (2) (FM-01/E)	ANTENNA HEIGHT L m	WIND LOAD (3) kN
2	1	7.5	5.6	82	81	4.6	1.51
4	1	10.5	11.2	158	156	9.8	3.02
6	1	12.2	16.6	244	241	15	4.53
8	1	13.5	22.3	332	328	20.2	6.04
12	1	15.2	33.2	488	482	30.6	9.06
16	1	16.5	44.6	664	656	41	12.08

(1) referred to half wave dipole. Attenuation of connecting cables not taken into account.

(2) without mounting hardware, for FM-01 panel.

(3) v= 150 km/h

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