COMROD MODULAR ANTENNAS

8m, 7m, 6m, HF Transmitting, MF-HF Receiving Antennas

High quality and high performance fiberglass rod antennas Transmitting antennas for simplex and duplex SSB Receiving antennas for MF-HF and SSB



Various lenghts, Various mounting

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System modules: Top Whip	A 4 m (13 ft) top whip, APB41, is common to all antennas.
Bottom section	The bottom section comes in three possible lengths 2, 3 and 4 m (6.7, 10 and 13 ft). For different mounting possibilities, see the last page.
Connecting kit	There are 3 different connecting kits, AT, AR and AR/T. The AT is a transmitting/tranceiving kit while the AR is a receiving kit. The AR/T is a receiving kit with matching transformer, useful when a long cable is required.
MT-Tilt	The M-Tilt is a manual tilting mechanism that allows you to tilt the flange mount side feed versions . We also supply an electrical tilting mechanism.





Electrical specifications transmitting antennas:

Frequency range	1.6-30 MHz
Power rating	1.5 kW PEP
Impedance	See separate section
Polarization	Vertical
Pattern	Omnidirectional
Electrical length	5.5 m (18 ft) (add 0.5 m (1.7 ft) for base mount) 6.5m (21 ft) (add 0.5 m (1.7 ft) for base mount) 7.5 m (25 ft) (add 0.5 m (1.7 ft) for base mount, subtract

Impedance Measurements: Antenna mounted on a 2 m steelpipe over flat steel roof. Feed line 2 m.

Frequency (MHz)	Transmitting Antenna	Transmitting Antenna 7 m	Transmitting Antenna
1.6	3-j1.310	3-j1.200	4-j1.060
2.0	4-j1.025	4-j950	5-j800
3.0	7-j970	8-j550	9-j470
4.0	9-j410	10-j325	11-j290
5.0	17-j260	18-j200	20-j145
6.0	20-j150	25-j95	28-j38
7.0	35-j65	40-j10	55+j55
8.0	40+ j30	50+j90	60+j155
10.0	100+j190	130+j270	200+j400
12.0	600+j450	650+j450	1000+j300
16.0	1000+j200	900-j500	500-j500
18.0	700-j500	400-j500	250-j450
22.0	200-j400	90-j280	70-j80
25.0	90-j195	75-j10	240-j200
30.0	200+j150	500+i0	400-j300

Connection kits for End feed and Side feed transmitting antennas

Frequency range	0.15-30 MHz	
Polarization	Vertical	
Pattern	Omnidirectional	
Electrical length	5.5 m (18 ft)	(add 0.5 m (1.7 ft) for base mount)
	6.5m (21.5 ft)	(add 0.5 m (1.7 ft) for base mount)
	7.5 m (25 ft)	(add 0.5 m (1.7 ft) for base

Electrical specifications receiving antennas:

Transformers for Receiving antennas:

When a long feeding cable is necessary, a transformer is recommended to compensate for the signal strength loss in the cable. A transformer is also recommended if the antenna is used mainly on low frequencies.

The transformer is mounted on a circuit board that is easily installed. For specifications please refer to separate datasheet.

Mechanical specifications:

Design	Selfsupporting fiberglass rod with aluminium or
Height	6 m (20 ft) 7 m (23 ft)
Weight	6 m: 7.0 kg 7 m: 7.6 kg
Sections	<u>6 m:</u> Base: AXB22 Bracket, side feed: AXB22D flange, end feed: AXB22D/S Flange, side feed Top: APB41
	<u>7 m:</u> Base: AXB32 Bracket, side feed AXB32D Flange, end feed AXB32D/S Flange, side feed Top:APB41
	<u>8 m:</u> Base: AXB42 Bracket, side feed AXB42D Flange, end feed AXB42D/S Flange,
Wind rating Moment of flexure	55 m/s = 125 mph <u>6 m:</u> 53.3 kpm at 55 m/s <u>7 m:</u> 75.3 kpm at 55 m/s
Deflection due to wind load	<u>6 m:</u> 2.4 m (8 ft) at tip ball at 55 m/s wind load
Finish	Polyurethane lacquer, white
Temperature range	-55 °C, +55 °C, -67° F, +131 °F
Ice buildup	Not affected



End feed, side feed receiving antennas.

MOUNTING:



Mast/wall mounting:

Versions:

AT82, AT72, AT62 AR82, AR72, AR62 AR82T, AR72T, AR62T

Mounting by means of U-bolts with nuts (included) or directly on wall or steel plate.



Mounting to weld brackets.

Versions: AT82H AR82H

Mounting by means of 2 x M10 bolts to weld brackets or to a mast or rail by means of the ATC-mounting (included).

Bracket mount

Base mount, Side feed: Versions: AT82D/S, AT72D/S, AT62D/S AR82D/S, AR72D/S, AR62D/S AR82D/S/T, AR72D/S/T AR62D/S/T AR62D/S/T

Base mount, side feed.



Base mount, End feed:

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Versions: AT82D, AT72D, AT62D AR82D, AR72D, AR62D AR82D/T, AR72D/T, AR62D/T

Mounted on a flange or bracket.

Cable is connected with a UHF female connector on the receive antennas.

Base mount, end feed.



Mounting of top whip:

In order to mount the whip to the base section, use the spring washer and firmly screw the whip and base section together using a torque of 200 Nm. The Grub screw is then tightened, this prevents the top whip from unscrewing.

Top whip



Manual tilt.

Tilting mechanism optional for Base mount side feed:

M-Tilt AXBYD. Electrical tilt after request.

M-Tilt is mounted on deck or pedestal by means of 4 x M12 bolts. Mountings to the antenna flang holes. 6pcs. M10x40 bolts with nuts (included).