

## ADS-B GROUND STATION FIBERGLASS HIGH GAIN OMNI COLLINEAR ANTENNA INSTALLATION MANUAL

### NOTICE:

Installation, maintenance or dismantling of the antenna system requires qualified and experienced personnel. Antenna Experts antenna Installation instructions have been prepared and are meant for skilled personnel only.

Antenna Experts disclaims any liability or responsibility as a result of improper or unsafe installation practices.

### MATERIALS:

Following materials are used for the fabrication of Antennas and its accessories.

Support pipe:	6063T6 Aluminum Alloy
Radiating Elements:	High Quality Brass
Antenna Radome:	Fiberglass
Mounting Hardware:	All stainless steel.
Fasteners:	All stainless steel.
Connector:	Silver plated brass body & Gold plated pin.
Insulator:	TEFLON.

### PACKING LIST:

<u>Sl. No.</u>	<u>ITEM/DESCRIPTION</u>	<u>QUANTITY</u>
1.	Antenna Fiberglass Collinear Complete in assembled condition	1 Each.
2.	Mounting Clamp to Mount the Antenna.	2 Nos.
3.	Installation Manual.	1 Each.
4.	Test Report.	1 Each.

### INSTALLATION INSTRUCTIONS:

1. Unpack the Collinear antenna and mounting hardware from the packing box and remove the plastic sleeve/tube from the fiberglass radome.
2. The mounting clamps of antenna are suitable to mount the antenna and coupler on 38 to 52 mm (1.5" – 2" ) outer diameter round pipe.
3. Install the ADS-B Collinear Antenna on the top of the mast, by using two mounting clamps, supplied with the antenna. Take extreme care during Installation that the Fiberglass portion of antenna must be clear/above from any metallic structure like mounting pipe/mast etc.
4. Connect the transmitter feeder cable to the N-Female connector of the antenna and secure it with cable ties.
5. Seal the connector against moisture ingress with a sealing tape.
6. Make sure that the frequency of the Transmitter / Receiver should be within the frequency band marked on the antenna. **Do not operate the antenna other than the specified frequency band of the antenna.**
7. Take VSWR reading by using through-line RF Power meter. The VSWR should never increase 2:1
8. Keep the record of VSWR measurements for future reference. Tighten all nuts and bolts.
9. Qualified, skilled personnel to verify proper installation and maintenance should inspect the antenna system once a year.

Note: All information contained in the manual is subject to change without any prior notice.