



FA-240 Troposcatter Antenna

COMPACT AND HIGH GAIN ANTENNA

Features

- Available in troposcatter bands
- Based on the FA-240 satellite antenna
- Lower edge of the reflector may be raised off the ground by 6 feet
- Robust carry cases
- MIL-STD-810 compliant
- No tools required

Overview

The FA-240 Troposcatter Antenna is a fully automated communications antenna providing the user with high capacity bandwidth in a simple to use motorised package.

The antenna is based on the ARSTRAT and MIL-STD-810 approved FA-240 satellite communications antenna.

The antenna may be assembled by two persons and is packed into flight cases for easy transport.

Troposcatter operation is provided by swapping the feedarm and feed from the standard satellite communications antenna to support the troposcatter frequencies.

The antenna may be deployed on the ground if local conditions allow or may be raised in the air to avoid any beam blockage issues.

Construction from high strength carbon fibre means the terminal is both lightweight and capable of withstanding the rigours of multiple deployments in testing environments.

The terminal may be converted to function as a satellite field swap over of the feedarms and feed to the appropriate C, X, Ku or Ka band frequency equipment.

Technical Specification

General	
Antenna Type	Parabolic (Segmented), centre fed
Diameter	2.4m
Polarisation	Linear Orthogonal Optional Motorised Polarisation Optional Circular Polarisation
Heading	Fluxgate Compass or Differential GPS

Transmit/Receive		
Frequency Band	FA-240	4.4-5.0GHz
Antenna Gain	FA-240	39.0dBi
Waveguide Interface	CPR187 Flanges Optional Quick Release Couplings	

Power	
Power Requirement	90 to 264V AC Power Supply +24VDC

Environmental	
Temperature	-40 to +70°C - Transportation & Storage -40 to +55°C - Operational
Humidity	1 to 100%
Altitude	3,000m @ -10°C
Wind Rating	Operational 45mph (72km/h) with gust up to 70mph (112km/h) Survival (stowed) 75mph (120km/h)

Physical	
Weight	Size
Case 1: 145 lbs	39.4 x 39.4 x 21.6"
Case 2: 141 lbs	39.4 x 39.4 x 21.2"
Case 3: 145 lbs	45.5 x 13.5 x 13.0"
Case 4: 88 lbs	55 x 19.4 x 12.1"
Case 5: 139 lbs	59.4 x 23.0 x 14.8"
Case 6: 130 lbs	59.4 x 23.0 x 14.8"
Case 7: 78lbs	50.2 x 19.4 x 11.5

Designed to comply to the following standards:	
Low Temperature	MIL-STD-810G Method 502.6 Proc I & II
High Temperature	MIL-STD-810G Method 501.6 Proc I & II
Humidity	MIL-STD-810G Method 507.6 Proc I
Rain	MIL-STD-810G Method 506.6 Proc I
Transit Shock	MIL-STD-810G Method 516.7 Proc IV
Temperature Shock	MIL-STD-810G Method 503.6 Proc I -D
Solar Radiation	MIL-STD-810G Method 505.6 Proc I
Blowing Sand	MIL-STD-810G Method 510.6 Proc II
Salt Fog	MIL-STD-810G Method 509.6
Vibration	MIL-STD-810G Method 514.7 Proc I
Altitude	MIL-STD-810G Method 500.6 Proc I & II



Ultra reserves the right to vary these specifications without notice.

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