

METE

Portable Motorized Terminal

Profen model METE is a unique design for commercial and military use.

It is a motorized terminal that can also be mounted on a mast (pole) with horizontal and vertical axis positioning control.

With its external control unit and built in sensors, it can offer auto-pointing and tracking solutions for Satellite applications.



PROFEN MODEL METE IS DEVELOPED BY PROFEN'S IN-HOUSE R&D TEAM.

SPECIFICATIONS

- * PORTABLE & RIGID MECHANICAL STRUCTURE
- * EASY TO INSTALL (< 15 MIN)
- * MAINTENANCE FREE BRUSHLESS MOTORS ON EACH AXIS
- * ZERO BACKLASH SYSTEM
- * AUTOMATIC SATELLITE FINDING AND TRACKING
- * LOW POWER SUPPLY
- * DIGITAL COMPASS
- * GPS RECEIVER
- * DUAL AXIS INCLINOMETER
- * PRESENT POSITIONS SENSORS
- * INTEGRATED DRIVER AND CONTROL CARD
- * ACCESS THROUGH WEB BROWSER
- * HAND SPINNING WHEEL OUTPUT CONNECTIONS ON EACH AXIS
- * HIGH LOAD CARRYING CAPACITY, 0.70 - 1.0M REFLECTOR AND RF COMPONENTS CAN BE PLACED
- * TOOL FREE INSTALLATION
- * SUPPLIED IN A PROTECTIVE BAG
- * COMMAND AND CONTROL APPLICATIONS
- * REAL TIME VIDEO AND DATA FILE TRANSFER
- * REAL START-STOP EASY-TO-USE
- * USE WITH PROFEN ANTENNA CONTROL UNIT (OPTIONAL)

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ANTENNA ELECTRICAL SPECIFICATIONS

System Parameters		X Bant	Ku Bant
Frequency Range (GHz)	Receive	7.25-7.75	10.95-12.75
	Transmit	7.90-8.40	13.75-14.50
Gain (Mid-band) (dB)	Receive	32	36
	Transmit	32.7	37.6
Polarization	Receive-Transmit	Circular	Linear
Cross polarization isolation (dB)	Receive-Transmit	25	35
VSWR	Receive-Transmit	1.5:1	1.5:1
Antenna Noise Temperature @ 30° EL (K)	Receive	60	50
Side Lobe Standard		MIL-STD-188-164A-CHG-3	ITU-R S.580-6

ANTENNA MECHANICAL SPECIFICATIONS

Antenna Diameter (m)		0.7	0.7
System Total Weight		16 Kg	
Positioner Carrying Capacity		15 Kg	
Position Resolution		0.1°	
Axis Speed	Azimuth	Horizontal: (fast) 6°/sec, (slow) 1°/sec	
	Elevation	Vertical: (fast) 5°/sec, (slow) 1°/sec	
	Polarization	Rotation: (fast) 5°/sec, (slow) 1°/sec	
Control		Monitoring and controlling can be done by internal unit with keyboard and screen and also through web with browser.	
Axis Angular Movement Range	Azimuth	± 210°	
	Elevation	0° - 90°	
	Polarization	± 100°	
Energy	Feed	Shelter Unit: 220VAC, 50/60 Hz Mast unit: 24 VDC (Supplied by shelter unit)	
	Consumption	Shelter Unit: 90 Watt Mast unit: 40 Watt (One axis is on the move)	
Wind Speed (km/h)	Operational	48 km/h	
	Survival	72 km/h	
Temperature	Operational	-30 to + 60°C	
	Storage	-40 to + 70°C	
Humidity	Operational	95% without condensation	
Rainfall		Maximum 100 mm/hour	