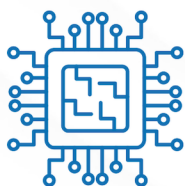


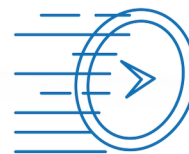
TROPOLINE240



Fully integrated terminal



European-made solution



Rapid deployment and toolless assembly

The TROPOLINE 240 auto-point troposcatter terminal boasts a comprehensive **MIL-STD-810**-compliant design and is a lightweight, easy-to-use Flyaway for **C-band** communication over long distances. **Two operators can deploy it in typically 20 minutes.**

This **2.4m** fully automated motorized **troposcatter** and line-of-sight (LOS) flyaway terminal with a military-grade pneumatic mast with a quadpod base for high stability. The system comes complete with a hand pump for easy mast deployment and extension to 3m to clear obstacles and with the **RAPU** sensor kid module.



requtech 

Made by Sweden: Reliability and Innovation in Challenging Environments



TECHNICAL DETAILS

C- Band	
Frequency	4,4 GHz to 5,0 GHz
Diameter	2,4 meters
Antenna Efficiency	> 60%
VSWR	≤ 1.3 : 1
RF Power handling	2 kW CW (Amp. not part of product)
Antenna Gain	40 dB minimum @ 5GHz
Compliance	ITU-R F.699 radiation pattern recommendation CE 2014/30/UE
Elevation Range	-5 to +45 degrees
Azimuth Range	±90 degrees, at full mast extension in light wind ±30 degrees, with guys and flex-WG mounted
Polarization skew	±100 degrees, motorized
Pointing Accuracy	±0.2 degrees (Azimuth and Elevation)
Monitor/Control	Via GUI and SNMP
Input Power	24/48 VDC
Mast Height	1.5 m retracted 3m extended
Packing Cases	RF and reflector: 5 robust IP65 packing cases (max. weight 70 kg/case) Mast: 5 military grade bags

Environmental details	
Operational Temperature	-20°C to +50°C
Wind	
- Operational	Up to 50 mph (80 km/h), gusting to 67 mph (108 km/h) when properly guyed down
- During deployment	25 mph (40 km/h) with gusts up to 34 mph (54 km/h)
- Survival	87 mph (140 km/h), guyed down and mast retracted

MIL STD 810G and MIL STD 461F: designed to meet compliance		
MILSTD810F Description	Mast and Quadpod Base	Antenna System
500.5: Low-pressure altitude	Procedure I: Storage/Air Transport 57.2kPa for 1hr	Antenna: Carbon fibre composite laid up in pseudo autoclave environment EL/AZ motorisation: Designed to meet
501.5: High temperature	Procedure II: Operation. Conditions as per NATO STANAG 2895 (71°C) for three cycle	Designed to meet
502.5: Low temperature	Procedure II: Operation. -55°C for 4 hours. Severe Cold (C3)	Designed to meet
503.5: Temperature shock	Procedure I: Shock from constant extreme temperatures Fig. 503.4-1 (-40°C / +60°C)	Designed to meet
505.4: Solar Radiation	N/A	Designed to meet
506.5: Rain	Procedure II: Watertightness	Designed to meet
507.4: Humidity	65°C 95%rh / 38°C 85%rh, 10 cycles	100% rh
508.4: Fungus Growth	All paint and finishes designed to meet	All paint and finishes designed to meet
509.4: Salt Fog	Exposed to atomised salt solution (5% by weight in deionised water) at 35°C for 24hours, then in a climatic chamber at 23°, 50%rh for 24 hours. 48hr cycle repeated for total test duration 96 hours	Designed to meet
510.4: Blowing Sand	Procedure II: Tested at 55°C for 3 hours at 5-6%rh with Silica Sand (as per 2.3.2.5b) at 2.2 g/m3 concentration at 18m/s	Designed to meet
510.5: Dust	Procedure I: Air velocity 8.9m/s at 23°C for 6 hours, then 55°C for 6 hours	Designed to meet
512.5: Immersion	Procedure IIb Deep Fording ((2) 1.5m) : 30 minute with items packed into transit cases	Designed to meet – certified to IP65
514.5: Vibration Cat 4. Truck/Trailer/ Tracked- Restrained Cargo	Truck Vibration: 4hrs random vibration in each axis, profile in accordance with MIL STD 810F Fig. 514.5 C1 Trailer Vibration: 500 minutes random vibration in each axis, profile in accordance with MIL STF 810F Fig. 514.5 C2 Tracked Vehicle Vibration: 500 minutes random on random vibration in each axis, profile in accordance with DEF STAN 00-35 (Part5)/3 Chapter 6-01, Fig. 8	Designed to meet
516.6: Shock: Procedure I: Functional Shock Shock: Procedure IV: Transit Drop	Designed to meet Designed to meet	Designed to meet
Wind	Designed to meet	Designed to meet
MILSTD461F Emission Susceptibility	N/A	Designed to meet

Requitech AB, based in Linköping, Sweden, is at the forefront of satellite communication technology. We specialize in developing high-performance, reliable satellite communication systems. Our mission is to revolutionize communication capabilities, enhancing global connectivity through innovative solutions.

Contact information
Telephone +46 (0)13 311771
E-mail info@requitech.se
www.requitech.com



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