

NRCP 2A

Mobile Dual Tacan Beacon

- Compliant with STANAG 5034
- Compliant with ICAO Appendix 10
- Full 24 H/day service
- Easy to deploy
- Modular architecture
- Full Solid State transponders
- Compact Electronic Antenna



NRCP 2A

SPECIFICATIONS

TACAN System

The TACAN system is a radio navigation system for in-flight and landing use. It consists of a ground equipment (the TACAN beacon) and an airborne equipment (the TACAN transceiver). It allows the on-board transceiver to provide the aircraft navigation system (or the pilot) with the range, bearing and identification related to the ground beacon.

NRCP-2A

The mobile TACAN beacon NRCP-2A is a modern ground station consisting of one electronic scanning antenna, one dual transponder in option, one remote control system, installed in a mobile shelter. It uses the same modules as those used for the on-shore (NRFP-2A) and shipboard (NRBP-2B) TACAN beacons, built by THOMSON-CSF Communications.

NRCP-2A:

- Is field proven and in service
- Provides a 24 Hours/day continuous service operation (with optional dual transponder)
- Is transportable by truck or aircraft
- Provides a range of at least 200 Nautical Miles
- Complies with STANAG 5034
- Complies with ICAO Annex-10 (DME/N)
- Is fully programmable with any of the 252 channels
- Automatically switches to the dual transponder upon failure of the in-service one
- Allows maintenance operation without switching off the beacon

General characteristics		
Traffic capacity		over 100 aircrafts (3,700 pulse pairs)
Number of channels		126 X and 126 Y
Free space useful range		200 Nm
Accuracy	Range Azimuth	± 75 m 1°
Frequency Band	Transmission Reception	962 - 1,213 MHz 1,025 - 1,150 MHz
Transmission frequency accuracy		2.10 ⁻⁵
Peak transmission power		1 kW (min)
Receiver sensitivity		- 90 dBm (min)
Breakdown		
Master transponder		ER 297 A/T
Auxiliary transponder (optional)		ER 298 A/T
Antenna		AN 338 A
Remote control unit (optional)		TC B7 A
Shelter		Various options

Physical		
Size	Transponder Antenna diameter Thickness	1,450 x 596 x 596 mm 137 cm 52 cm
Weight	Transponder Antenna	150 kg 55 kg
Power supply		220 V 50/60 Hz < 1,000 VA (single) < 1,500 VA (dual)
Reliability (MTBF)	Transponder Antenna	> 10,000 hours > 16,000 hours
MTTR		< 25 mn
Monitoring		Sensitivity, gap delay, pulse coding, number of pulses, transmission power, bearing accuracy, identity, antenna modulation rate, ...

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