



Description

The TR-100AF TACAN Test Set provides the operator with an easy to use, ruggedly designed ramp test set used for verification of airborne TACAN Transmitter Receivers.

Highlights:

- Ground to Air (G/A), Air to Air (A/A), and Air to Air Beacon (A/A BCN) Modes
- Inverse Mode, North Reference Trigger (NRT) (A/A, G/A)
- T/R(X,Y) Inverse pulses, 15Hz AM mod, 2700Hz squitter, 1350Hz Ident+equalizer pulses, (NRT)
- Covers entire frequency range from Channels 1 thru 126 X and Y
- Accurate Power and Frequency measuring capability**
- Numerous Heading and Range Selections available
- Tel-Instrument Standard 2 year warranty included

The TR-100AF features a large backlit LCD display, combined with easy setup menus and user-friendly controls, make the TR-100AF effortless when conducting quick and accurate tests of airborne TACAN equipment. The Direct Connect feature provides precise measurements of power, frequency, and sensitivity**, no external attenuator is required.



P/N 90 000 130
NSN: 6625-01-578-4893RH

Features

** Denotes A/A Mode Only

- Modes: Ground to Air (G/A), Air to Air (A/A), Air to Air Beacon (A/A BCN), Inverse Mode (A/A, G/A)
- North Reference Trigger at BNC connector on the front (NRT)
- Selectable Bearings from 0 to 359° in 1° increments in Air to Air Beacon (A/A BCN) and Ground to Air (G/A) modes
- Selectable ranges of 0 to 350 nmi. in 1 nmi. increments
- Selectable velocity adjustments of 120 to 1200 knots in 10 knot increments
- Built in diagnostic Self Test
- Battery allows 8 hours of operation before recharge (25% Duty Cycle)
- Built in Battery Charger, 100 to 240 VAC, 50 to 400 Hz
- Rugged and weather resistant case
- Direct Connect Mode and Omni-Antenna interconnects
- Pass/Fail criteria based on stored parameters
- IDENT – Morse Code audio transmitted
- Standard 2 year limited warranty

Specifications

Test Set Transmitter*

Frequency Range	962 to 1213 MHz
Frequency Accuracy	± 10 kHz
Power Out	2 dBm ±3 dBm (@ Ant Port)
Bearing Accuracy	± 1° typical, ± 2° max.
Range Accuracy	± 0.5 nmi. Typical, ± 1.0 nmi. max.
Velocity Accuracy	± 3%
Antenna	Omni-Directional

Test Set Receiver*

Freq Measurement Range	Selected Frequency ± 3.5 MHz
Freq Measurement Accuracy	± 200 kHz
Power Freq Measurement Range	47...64dbm ± 2 db (direct connect)
Power Measurement Accuracy	47...64dbm ± 3 db (antenna to antenna)
Sensitivity	< -35 dBm (Ant port)
Reply Efficiency Settings	Selectable 25%, 50%, 75% & 100% inc.
Efficiency Accuracy	± 1% (A/A)

* Indicates Standard Condition Values as outlined in Maintenance Manual

Physical

Packaging	MIL-PRF-28800F
Size	14.5 x 9.4 x 8 inches
Weight	18 pounds
Temperature, Operating Limits	-28°C to +55°C
Battery Type/Life	Lead Acid / 8 hours at 25% duty cycle
Battery Charger/Power	Built-in / 100 to 240 VAC, 50 to 400 Hz

Accessories

- AC Power Cord
- Direct Connect Coax
- Omni Antenna
- Operational with Maintenance Manual



Leading the Avionics Test Set Industry into the 21st Century!