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TS-4530A Test Set, RADAR Datasheet

Description

The TS-4530A, which has been upgraded and manufactured by Tel-Instrument, is the latest version of the respected AN/APM-424 and TS-4530 test set. The TS-4530A, developed under a U.S. Army contract now tests IFF including Mode 5, EHS, TCAS as well as ADS-B Transmit and Receive. Based on a new, highly integrated digital architecture; the TS-4530A performs the following tests:

- Transponder: Modes 1, 2, 3/A, C, 4 Mode S, EHS (Enhanced Surveillance) and Mode 5 (Levels 1 & 2)
- > ADS-B In and Out (transmit and receive) testing
- Interrogator: Modes 1, 2, 3/A, C, 4, Mode S, Mode 5 (Levels 1 & 2), TCAS & ETCAS
- > Built-in KIV-77 CCI housing enclosure
- Built in GPS with integrated GPS antenna provides accurate Date, TOD and LAT/LONG for positioning
- Simple to use "GO/NO-GO" operation
- > Selected Mode S BDS register information



NSN – 6625-01-562-0715 P/N – 90000125 (Includes all Accessories) P/N – 89000215 (Test Set Only)

ACCEPT>	
Mode 4 Pass	
Mode 5 Pass	
Mode S Pass	
More Details	

The TS-4530A includes a large 2.8 inch, color OLED display and a new 3-button switch assembly that adds a 4-way directional toggle action with push-in to select capability for user friendly fast operation.

Additional features include:

- > Over-the-Air and Direct Connect test methods
- Rugged and durable MIL-PRF-28800, Class 1 package
- Extensive built-in diagnostics
- Improved power management for extended test set operation
- Reduced unit weight
- Remote download capability
- Bench Utility capability
- Multiple stored user presets

Additional

The TS-4530A is lighter than previous versions of the Test Set. Advanced power management extends battery operation time. The KIV-77 crypto housing blends into the unit and the crypto is readily visible with the same viewing line as the display in the unit. Rapid one button GO/NO-GO test can be performed based on stored parameters and criteria.

TS-4530A

Signal Cenerator

Measurement Receiver

Generator Frequency Generator Power Antenna	1030 or 1090 MHz +4 to –44 dBm with 1 dB	Frequency Range Amplitude Range	1030 or 1090 MHz +68 to +20 dBm at direct port, +24 to -24 dBm at antenna port
Direct	resolution, 1.5 dB accuracy at antenna connector (2 dB accuracy for radiated field strength) -40 to -95 dBm with 1 dB	Input Protection	Antenna Ports: +40 dBm peak 30µs max @ 1% DC, +27 dBm average Direct Port: + 68 dBm peak 30µs max, 1% DC, +43 dBm average
	resolution, 1.5 dB accuracy	Receiver Measuremer	nts
Waveforms	IFF Modes 1, 2, 3/A, C, 4, S & 5 comply DoD AIMS 03-1000A. IFF Mode S / TCAS / EHS complies with RTCA/DO-181C	Power	0.1 dB resolution 1.5 dB accuracy direct, 2 dB over the air
ISLS Amplitude	Equal to P1 on difference or sum ports when ISLS suppression enabled. Provides ISLS pulse on difference antenna during Mode S P6	Frequency	10 kHz resolution Accuracy for IFF Modes 1, 2, 3/A, C, 4, S 0.1 MHz Transponder 0.05 MHz Interrogator
Interrogation Rate	Mode 1, 2, 3/A, C, 4 A/A mode – 235 Hz ±5 Hz Direct Connect 450 Hz ± 5 Hz	Pulse Spacing Pulse Width	Accuracy within 25 ns for pulses with rise times <100ns Accuracy within 25 ns for pulses
Short Long Mode 5	45 – 50 Hz 13-16 Hz 200 – 225 Hz		with rise time <100ns and fall time <200ns
Harmonics & Spurious	Complies with MIL-STD-461E	Receiver Bandwidth	>10 MHz at -3dB response
Spectral Mask	(see EMC/RFI section) Complies with DoD AIMS 03- 1000A	COMSEC Ir	iterface
Physical Cha	aracteristics	KIV-77	Appliqué plugs directly into Test Set
Packaging Size	MIL-T-28800, Class1 Length 14.1" Width 11.5"	KIT-1C / KIR-1C	Accessory cable connects to 37 pin circular connector on Test Set

Accessories

Standard 2-year TIC Warranty External Battery Charger AC Adapter, Power Cord DC Power Cable Direct Connect Cable TNC Transit Case Cable, KIT/KIR-1C Interface USB Cable, RS-232 Cable, 9-Pin RF Adapter TNC to N CD-ROM, Operation Manual

Weight Test Set Only

Weight with

Transit case

Battery Type

Battery Life

Op Temperature

Battery Charger

Integrated GPS

Power requirements

Antenna Configuration

Height 7.5"

(without KIV-77)

-40° C to +55° C

12 to 36 VDC

Case Mounted

Antenna

37 lbs

< 9 lbs. (with battery, without KIV77)

(2)7.2V NiCad provided

100-240 VAC, 50-400 Hz

Mounted in crypto cover

12 Hours at 20% DC

Internal and External