

General Specification

User Interface

Display	12" color LCD, sun light readable w/ back light
Controls	Touch-screen
Antenna Couplers	TX and RX
Coupler Loss Compensation	0 to 19.9 dB

TX/RX Direct Connection Ports

Impedance	50 Ω
SWR	
TX	2.5:1
RX	1.5:1
Connector	TNC x 2 (single TX/RX channel)

Receiver

RF Input Frequency

Range	4.20 to 4.40 GHz (ITAR Limited)
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FMCW/CDF FMCW

Frequency Measurement	
Range	4.20 to 4.40 GHz (ITAR Limited)
Accuracy	± 5 MHz
RF TX Power Input Tracking	
Range	10 mW (+10 dBm) to 2 W (+33 dBm)
RF TX Power Measurement	
Range	4 mW (+6 dBm) to 2 W (+33 dBm)
Accuracy	± 2 dB
FM Sweep Rate Measurement	
Range	50 to 400 Hz
Accuracy	± 5 Hz
FM Deviation	
Range	20 to 100 MHz
Accuracy	± 5 Hz

Pulse

Frequency Measurement	
Range	4.20 to 4.40 GHz (ITAR Limited)
Accuracy	± 10 MHz
TX Power Measurement	
Range	1 mW (0 dBm) to 300 W (+54 dBm) peak
Accuracy >50 ns	+2 dB
Accuracy <50 ns	+3 dB
TX Pulse Width Measurement	
Range	20 ns to 400 ns
Accuracy	± 10 ns
TX Pulse PRF Measurement	
Range	0 to 30 KHz
Accuracy	$\pm 5\%$

GENERATOR

Linear Altitude Simulation

Range FMCW/CDF	-20 to 8,000 ft.
Range Pulse	50 to 8,000 ft.*
* Note: lower altitude limit determined by connecting RF coax cable length	

Resolution	1 ft. Increments
Accuracy	± 1.5 ft or 2% RMS (whichever is greater)

Linear Altitude Rate

Range	1 to 120,000 fpm
Resolution	1 ft. increments

Test Cable (automatic compensation)

Test Cable Length	1 to 100 ft.
Test Cable Loss	0 to 9.9 dB

AID (direct connect)

Fixed Selectable	0, 20, 40, 57 or 80 ft.
User Entered	0 to 99 ft.

Altitude Offset

-25 to 100 ft.

RF Level

Manual Mode (FM/CW)	
Range	-84 to +9 dBm (varies with cable loss)
Accuracy	± 4 dB
Manual Mode (Pulse)	
Range	-76 to +17 dBm
Accuracy	± 4 dB
Auto Mode	TX Power – Height Path Loss- Scattering Loss- Offset
RF Level Offset (auto)	-20 to +20 dB

RF Path Loss Simulation

0 to 8,000 ft.

Frequency Stability

± 1 ppm

Enviromental

Test Set

Operating Temperature	-20° to $\leq 55^\circ\text{C}$
Storage Temperature	-30° to $\leq 71^\circ\text{C}$
Altitude	$\leq 10,000$ meters

Supplied External AC to DC Converter

Use	Indoors
Altitude	$\leq 10,000$ meters
Operating Temperature	5° to 40°C
Storage Temperature	-20° to 71°C

Physical Characteristics

Size:	
Test set only	10.6"H x 13.9"W x 3.4"D 27.0 cm x 35.5 cm x 8.7 cm
w/ standard access.	12" H x 30.5"W x 22.5"D 30.5 cm x 77.5 cm x 57.2 cm
Weight:	
	15.5 lbs. (test set only) 62 lbs. (shipping weight)

Certifications

Test Set

Operational Humidity	MIL-PRF-28800F, Class 2
Storage Humidity	MIL-PRF-28800F, Class 2
Vibration Limits	MIL-PRF-28800F, Class 2
Shock, Functional	MIL-PRF-28800F, Class 2
Transit Drop	MIL-PRF-28800F, Class 2
Drip Proof	MIL-PRF-28800F, Class 2
Dust	MIL-PRF-28800F, Class 2
Salt	MIL-PRF-28800F, Class 2
Explosive Atmosphere	MIL-STD-810F, Method 511.4, Procedure 1
Safety Compliance	UL-61010:2001 CSA 22.2 No 1010.1

WEEE
ROHS
EMC
Emissions

MIL-PRF28800F Class 2
EN 61326:1998 Class A
EN 61000-3-2
EN 61000-3-3
MIL-PRF28800F Class 2
EN 61326:1998 Class A

Immunity

External AC-DC Converter

Safety Compliance	UL 1950 DS CSA 22.2 No. 234 VDE EN 60 950
EMI/RFI Compliance	FCC Docket 20780 Curve "B" EMC EN 61326

Transit Case

Drop Test	FED-STD-101C Method 5007.1 Paragraph 6.3, Procedure A, Level A
Falling Dart Impact	ATA 300 Category I
Vibration, Loose Cargo	FED-STD-101C Method 5019
Vibration, Sweep	ATA 300 Category I
Simulated Rainfall	MIL-STD-810F Method 506.4, Procedure II of 4.1.2 FED-STD-101C Method 5009.1 Sec 6.7.1
Immersion	MIL-STD-810F Method 512.4

Versions, Options and Accessories

Order Number	Description
92923	ALT-8015 Radio Altimeter Test Set

Standard Accessories

88494	Transit case
67374	Power supply
88590	Antenna coupler (qty 2)
34028	Antenna pole assembly (qty 2)
112036	Attenuator, 20 dB (qty 2)
38353	TNC-TNC adapter
62401	Cable, TNC-TNC, 12" (Loop Back)
64020	Power cord, European
62302	Power cord, U.S.
88511	Coax, RG400, TNC-TNC, yellow 20'
89527	Coax, RG400, TNC-TNC, red 20'
91253	Coax, RG400, TNC-TNC, yellow 4'
91255	Coax, RG400, TNC-TNC, red 4'
92955	Getting Started Manual
92956	Operation Manual (CD)

Optional Accessories

88500	Low loss RF coax cable 100 ft. (qty 2) w/ soft-side case)
87040	External battery charger
86196	Spare battery pack
92980	Maintenance Manual (CD)

This product is subject to the Export Administration ("EAR") (15 CFR 730-774) and may not be exported, re-exported or otherwise transferred to a foreign person, or outside the United States without authorization from the U.S. Department of Commerce.

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