

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	3:1
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

Pulse

Frequency Measurement	
Range	4.20 to 4.40 GHz (ITAR Limited)
Accuracy	± 10 MHz
Power Measurement	
Range	1 W (+30 dBm) to 300 W (+54 dBm) peak
Accuracy	± 2 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 5,500 ft.
Range Pulse	50 to 5,500 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 10,000 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 Frequency Stability

0 to 5,500 ft.
 ± 1 ppm

Environmental

Operational Temperature	-20° \leq to \leq 55°C
Storage Temperature	-30° \leq to \leq 71°C
Altitude	$\leq 10,000$

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
Immunity	MIL-PRF28800F Class 2 EN 61326:1998 Class A

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
87340	ALT-8000 Radio Altimeter Test Set NSN: 6625-01-610-3549

Standard Accessories	
139137	Transit case
67374	Power supply
62401	Cable, TNC-TNC, 12" (Loop Back)
38353	TNC-TNC adapter (qty 2)
139139	Antenna coupler (qty 2)
139152	Antenna coupler pole set (qty 2)
88511	Coax, RG400, TNC-TNC, yellow 20'
89527	Coax, RG400, TNC-TNC, red 20'
112036	Attenuator, fixed 20 db
62302	Power cord, U.S
64020	Power cord, European
88035	Operation Manual (CD)
88036	Getting Started Manual

Optional Accessories	
88500	Low loss RF coax cable 100 ft. (qty 2) w/ soft-side case
87040	External battery charger
86196	Spare battery pack
89022	Maintenance Manual CD
91253	Coax RG400 TNC-TNC yellow 4'
91255	Coax RG400 TNC-TNC red 4'

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