

## 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 $\Omega$
SWR	
TX	2.5:1
RX	3:1
Connector	TNC x 2 (single TX/RX channel)

### Receiver

<b>RF Input Frequency</b>	
Range	4.20 to 4.40 GHz (ITAR Limited)

<b>FMCW/CDF FMCW</b>	
Frequency Measurement	
Range	4.20 to 4.40 GHz (ITAR Limited)
Accuracy	$\pm 5$ 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	$\pm 2$ dB
FM Sweep Rate Measurement	
Range	50 to 400 Hz
Accuracy	$\pm 5$ Hz
FM Deviation	
Range	20 to 100 MHz

<b>Pulse</b>	
Frequency Measurement	
Range	4.20 to 4.40 GHz (ITAR Limited)
Accuracy	$\pm 10$ MHz
Power Measurement	
Range	1 W (+30 dBm) to 300 W (+54 dBm) peak
Accuracy	$\pm 2$ dB
TX Pulse Width Measurement	
Range	20 ns to 400 ns
Accuracy	$\pm 10$ 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	$\pm 1.5$ 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	$\pm 4$ dB
Manual Mode (Pulse)	
Range	-76 to +17 dBm
Accuracy	$\pm 4$ dB
Auto Mode	TX Power – Height Path Loss- Scattering Loss- Offset
RF Level Offset (auto)	-20 to +20 dB

<b>RF Path Loss Simulation</b>	0 to 5,500 ft.
<b>Frequency Stability</b>	$\pm 1$ ppm

## Environmental

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

## Physical Characteristics

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

## Certifications

<b>Test Set</b>	
<i>Operational Humidity</i>	MIL-PRF-28800F, Class 2
<i>Storage Humidity</i>	MIL-PRF-28800F, Class 2
<i>Vibration Limits</i>	MIL-PRF-28800F, Class 2
<i>Shock, Functional</i>	MIL-PRF-28800F, Class 2
<i>Transit Drop</i>	MIL-PRF-28800F, Class 2
<i>Drip Proof</i>	MIL-PRF-28800F, Class 2
<i>Dust</i>	MIL-PRF-28800F, Class 2
<i>Salt</i>	MIL-PRF-28800F, Class 2
<i>Explosive Atmosphere</i>	MIL-STD-810F, Method 511.4, Procedure 1
<i>Safety Compliance</i>	UL-61010:2001 CSA 22.2 No 1010.1
<b>WEEE</b>	
<b>ROHS</b>	
<b>EMC</b>	
<b>Emissions</b>	MIL-PRF28800F Class 2 EN 61326:1998 Class A EN 61000-3-2 EN 61000-3-3
<b>Immunity</b>	MIL-PRF28800F Class 2 EN 61326:1998 Class A
<b>External AC-DC Converter</b>	
<i>Safety Compliance</i>	UL 1950 DS CSA 22.2 No. 234 VDE EN 60 950
<i>EMI/RFI Compliance</i>	FCC Docket 20780 Curve "B" EMC EN 61326
<b>Transit Case</b>	
<i>Drop Test</i>	FED-STD-101C Method 5007.1 Paragraph 6.3, Procedure A, Level A
<i>Falling Dart Impact</i>	ATA 300 Category I
<i>Vibration, Loose Cargo</i>	FED-STD-101C Method 5019
<i>Vibration, Sweep</i>	ATA 300 Category I
<i>Simulated Rainfall</i>	MIL-STD-810F Method 506.4, Procedure II of 4.1.2 FED-STD-101C Method 5009.1 Sec 6.7.1
<i>Immersion</i>	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

88494	Transit case
67374	Power supply
88590	Antenna coupler (qty 2)
34028	Antenna pole assembly (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'
88036	Getting Started Manual
88035	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
89022	Maintenance Manual CD
91253	Coax RG400 TNC-TNC yellow 4'
91255	Coax RG400 TNC-TNC red 4'

For further information please contact:

Cobham AvComm  
10200 West York Street  
Wichita, KS 67215-8935 [USA]  
Phone: (316) 522-4981  
Fax: (316) 524-2623  
E: info-test@aeroflex.com

or contact your Cobham AvComm sales office