

# ESATS II 100000-03



\*Mobile Cart Sold Separately

## Accurate Wiring and Component Analysis Anytime, Anywhere!

- ◆ Portable Environmentally Sealed Packaging
- ◆ MIL-STD-810G, MIL-STD-461F, MIL-PRF-28800F Qualified
- ◆ Fully Programmable Measurement System up to 500 VDC
- ◆ 512 Test Points with 512 Random Access (RAX) Points in Base Configuration
- ◆ Expandable to over 15,000 Test Points
- ◆ Embedded Wire Mapping and Self Learn Capability for Circuits

Automatic Wire Test Set (AWTS) analyzers are DOD approved common support test sets for use at all levels of maintenance on all platforms. From established depots to remote deployments, this flexibility enables maintainers to choose where best to perform service and repair actions.

The Electrical Sub-Assembly Test Set (ESATS II) configuration (P/N: 100000-03) is focused on supporting component assemblies and complex wire systems by maximizing the combination of test points with RAX Energization and available stimulus sources. Electrical and electronic assemblies can now be tested in place to reduce maintenance costs.

Instructions listed in NAVAIR 17-15W-1, USAF T.O. 33D7-28-34-1.



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# SYSTEM SPECIFICATIONS

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ESATS II, P/N: 100000-03  
NSN: 4920-01-644-2084

## FEATURES

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### Measurement System

Voltage Measurement Stimulus	0.25 to 500 VDC (-0.25 to -500 VDC)
Current Measurement Stimulus	0.005 to 1.0 Amps (-0.005 to -1 Amps)
Resistance Measurement	0 to 1000M Ohms
	Diode Forward Voltage: 0-25 VDC
VI Measurement	Diode Leakage: 0-15 mA
	Current Drain: 0-25 VDC
	Zener Diode: 0-500 VDC
DC HIPOT Measurement	0.5mA to 2.5mA (100 to 500 VDC)
DC Voltage Measurement	-200 to 200 VDC (up to 500 VDC non switching)
AC Voltage Measurement	0.0 to 225 VAC (up to 350 VAC non-switching)
Capacitance Measurement	0 to 100 $\mu$ F (extended ranges available)

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### Switching/Energization System

Test Address Points	512
RAX Energization Points	512 (4 and 8 Buses)
	0-34 VDC @ 2 A (3 Channels)
Voltage Energization	0-130 VAC, 10-5kHz
Signal Generator	0-8 VAC, 0-10kHz (square, sine, arbitrary, & more)

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### Operating Conditions

#### Relative Humidity - 0-100%

*\*per MIL-PRF-28800F, Class 2*

#### Operating Temperature - 14°-131° F

*\*per MIL-PRF-28800F, Class 2*

#### Functional Shock - 30G

*\*per MIL-PRF-28800F, Class 2*

#### Salt Exposure

*\*per MIL-PRF-28800F, Class 2*

#### Vibration Tested

*\*per MIL-PRF-28800F, Class 2*

#### Loose Cargo Bounce

*\*per MIL-PRF-28800F, Class 2*

#### Explosive Atmosphere

*\*per MIL-PRF-28800F, Class 1*

#### Dust Resistance

*\*per MIL-PRF-28800F, Class 1*

*Contact Eclipse for complete listing*

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### Physical Characteristics

Input Power	115 / 230 VAC (auto-ranging), 50-400 Hz
Physical Dimensions (TCU)	14"H x 27.5"D x 21"W, @ 108.5 lbs.
Physical Dimensions (CPU w/Case)	9"H x 24.5"L x 19.5"W, @ 29 lbs.

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