

# WesTest-2000/DATS

## Digital and Analog Test System

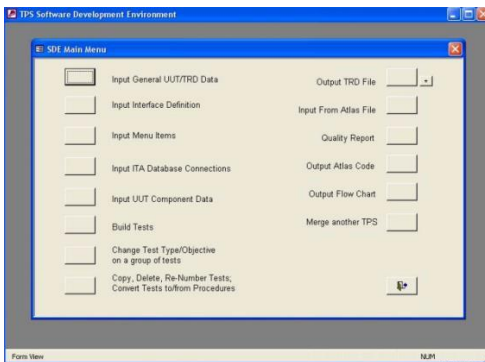
**Adaptable • Flexible • Scalable • Affordable**



DOD sanctioned USAF F-16 Depot Test  
Stand NSN 4920-01-505-1038  
Analog, Digital and RF Test 400+ TPSs



**Mature Software Development Suite, featuring:**



**TRD Generation**  
**ATLAS Code**  
**Generation**  
**Program Emulation**  
**Flowchart Output**  
**Quality Reports**

### Extraordinary Test Executive

- Multiple TPS Development Languages - ATLAS, LabView, LabWindows, C++
- Extensive Debug Tools
  - Force GO/NOGO
  - Stop on GO/NOGO/Test Step
  - Single Step
  - Watch Variables
  - Branch Capability
  - Instrument Soft Front Panel Control
  - Signal path mapping (UUT to Instrument)
  - Measurement Monitoring
- Test Reports - HTML



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# WesTest-2000/DATS Series Specifications

## Computer System

### Intel Xeon 4 Core CPU (minimum)

- Windows 10 Operating System
- 8 GB SDRAM Memory
- Video Card with 2 GB RAM
- 1 TB Hard Disk Drive Unit
- USB Optical Mouse
- USB Keyboard
- IEEE-488 Bus Controller card
- MXI-3 Interface Controller cards
- 24" LCD Flat Panel Color Monitor
- DVD+/-RW Drive
- Ethernet Adapter
- Black and White Laser Printer
- UPS Power Backup

## Rollup Augmentations

- RF
- Microwave
- Pneumatic System – Pressure & Vacuum
- Electronic Load Assembly
- Environmental Chamber

## Software Options

- LabWindows CVI
- LabView
- C++

## Core Instruments

### Measurement Subsystem

Digital Multimeter – Keysight 1412A (VXI, 6.5 digit resolution)  
Universal Counter/Timer – Keysight E1420B (VXI, 2 Chan, 200 Mhz, 9 digit)  
Digital Oscilloscope – Keysight MSOX3054T 500 MHz (4 Chan, 16 Dig, 5 G/sec)  
Synchro/Resolver to Digital Converter – North Atlantic VXI 65CS4

### UUT Power Subsystem

Fixed DC Power – Lambda LZS-50  
Fixed DC #1 ( +5 VDC @ 8.5 Amps)    Fixed DC #2 (+15 VDC @ 4 Amps)  
Fixed DC #3 (-15 VDC @ 4 Amps)    Fixed DC #4 (+28 VDC @ 2 Amps)  
Programmable DC Power – Ametek 5702472-01 (Modular System)  
Programmable DC #1 ( -20 to +20 VDC @ 30 Amps)  
Programmable DC #2 ( -20 to +20 VDC @ 30 Amps)  
Programmable DC #3 ( -20 to +20 VDC @ 30 Amps)  
Programmable DC #4 ( -40 to +40 VDC @ 15 Amps)  
Programmable DC #5 ( -40 to +40 VDC @ 15 Amps)  
Programmable DC #6 ( -80 to +80 VDC @ 7.5 Amps)  
Fixed AC/DC Power – Transformer Assembly  
Fixed AC #1 (25.2 VAC)    Fixed AC #2 (12.6 VAC)    Fixed AC #3 (6.3 VAC)  
Programmable AC/DC Power – Ametek CSW5550  
Programmable AC #1 (0 to 312 V, 1,850 VA, DC or 40 Hz to 5000 Hz)  
Programmable AC #2 (0 to 312 V, 1,850 VA, DC or 40 Hz to 5000 Hz)  
Programmable AC #3 (0 to 312 V, 1,850 VA, DC or 40 Hz to 5000 Hz)

### Stimulus Subsystem

Digital to Synchro & Resolver Converters – North Atlantic's VXI 65CS4  
Arbitrary Function Generator – Agilent E1445A Arbitrary Function Gen (2)  
Digital to Analog Converter – Keysight E1418A 16 Channel D/A (16 channels)  
Arbitrary Waveform Generator – Keysight E1441A Arb Waveform Gen (2)  
Pulse Generator – Racal Instruments Pulse Generator Model 3172 (50 Mhz)  
Variable Gain Amplifiers – North Atlantic VXI-5410C-56-1 (4 Chan)  
– Pickering PXI-640 (5 Chan)

### Digital Subsystem

Dynamic Digital Test Unit – Teradyne Di-Series Digital Test Instrument  
640 Programmable Pins (10 DI-025-24 Cards, 1 DI -050-31 Utility Card)  
Guided Probe Diagnostics  
MIL-STD-1553 Tester – GE QVXI-1553-2M MIL-STD-1553 Bus Interface Card

### Switching Subsystem

Test Point Switching and Routing System – Keysight E1467A 8X32 Matrix and  
Keysight E1460A 64 Channel Multiplexer.  
General Purpose Switching – Keysight E1442A Form C (5, 1 Amp)  
High Current Switching – Keysight E1463A Form C (5 Amp)  
Digital Switching – Digital Test Unit (215 channels)  
Coaxial Switching – Astronics 3000-4320 Coaxial Multiplexer (1.3 Ghz)  
Interface Connector Assembly – Virginia Panel VXIbus Receiver (series 90)

### Programmable Blower – WesTest 5000425

AC Power Distribution Unit - 3 Phase, 50/60Hz, 208 – 460 VAC

Note: WesTest continually monitors obsolescence issues and upgrades applicable instruments to the latest state of the art technology while maintaining full backward TPS compatibility.

**WESTEST**  
ELEVATED CONFIDENCE

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