

H2610 Depot Analog Test System

H2610 System Highlights

- "Worldwide Standard" analog tester for the F-15 and F-16
- State-of-the-art system based upon current COTS technology
- Total system solution
 - ATE available
 - TPS's available
 - Documentation available
 - TPS development tools available



The fully modernized H2600 utilizes Pentium-based computer with Microsoft Windows NT operating system and a full array of commercial off-the-shelf "COTS" instruments.

Modernized H2610

- VXI open architecture (plug and play)
- IEEE data bus/MXI data bus
- Pentium computer with Microsoft Windows NT software
- Complete suite of commercial off-the-shelf (COTS) instruments - current technology
- Significantly enhanced reliability and throughput
- Low cost TPS environment available

Field Proven

- Backward compatible with existing H2600 TPS's - proven by field use
- Configured by Honeywell and Lockheed Martin for the F-16 Depot
- Adapted by Honeywell and Boeing for the F-15 Depot
- Maintains USAF commonality

H2610 Upgrade Kit

- NDI field retrofit upgrade kits available for existing H2600 ATE

Standard Features

System Specifications

Analog

- 12 ATLAS programmable sources
- 6 ATLAS programmable sensors
- 11 UUT power supplies

Digital

- Bi-directional testing
- ATLAS programmable

Software

- IEEE-416 ATLAS compiler
- Automatic TPS development tools
- Program debugging directly in ATLAS
- Automatic configuration management software
- Full self-test and diagnostics

Existing Logistics Support

- MIL-STD-1552 provisioning
- Air Force Technical Orders
- Calibration/measurement requirements summary
- Training for O&M and TPS development (video media options available)
- Field support in place

Specifications

Analog Measurement

Multimeter

- DC Voltage: 0.001 mV to 1050V
- AC true RMS voltage: 0.01 mV to 700V
- Resistance: 0.1 m Ω to 1.2G Ω

Counter/Timer

- Frequency: 0 to 200 MHz
- Time interval: 500 ps to 10⁷ seconds

Central Measurement Group

- Programmable threshold detector (2)
- Sample and hold acquisition time: 100 μ sec
- Time delay generator

Digitizing Oscilloscope

- Bandwidth: DC to 500 MHz
- Real time sampling: 1 msec/div to 500 ms/div
- Sweep rate: 500 ps/div

Digital Analyzing Voltmeter

- Modes: Total fundamental, in-phase, quadrature
- Voltage: 20 mV to 500V true RMS
- Reference inputs: 1V to 500V. 10 Hz to 100 KHz

Analog Oscilloscope

Use channels 3 and 4 of Digital Oscilloscope

Analog Stimulus

AC Power Supply

- Output configuration: 3 phase, 4 wire WYE
- Power: 0 to 500 VA per phase
- Voltage: 0 to 150 VAC per phase
- Frequency range: 45 Hz to 5 KHz
- IEEE-488 programmable

Precision DC/AC Supply (2)

- Voltage: \pm 65.5 V, 0.25 mV max. resolution
- Current: \pm 1A
- Frequency: DC to 30 KHz
- Precision voltage reference at 400 Hz

Precision DC/AC Supply (2)

- Voltage: \pm 110 V, 0.5 mV max. resolution
- Current: \pm 0.5A
- Frequency: DC to 30 KHz
- Precision voltage reference at 400 Hz

Synchro/Resolver

- Modes: 3 wire synchro 4 wire resolver
- Angle: 0 to 360 degrees
- Resolution: 0.001 degrees
- Voltage: 90, 11.8, or 5V RMS

DC Power Supplies to:

- 320 volts
- 16 amp
- 4800 watts

Function Generator (3)

- Waveforms: DC, sine, square, triangle
- Amplitude: 5 mV to 22V p-p into 50 Ω
- Frequency: 0.001 Hz to 10 MHz

Pulse Generator

- Pulse repetition frequency: 0.5 Hz to 50 MHz
- Pulswidth and delay: 10 ns to 1 sec
- Voltage: \pm 30 mV to \pm 10V

DC Power Supplies (11 Total)

All DC supplies feature:

- IEEE-488 programming
- Floating ground
- Program controlled switching

Programmable Decade Resistor

- Resistance: 0 to 1,111,110 ohms

Digital Capability

Digital Test Unit (Stimulus/Measurement)

- 80 channels programmable bi-directional driver/receivers
 - 32 channels -0.5 to +5.5V, 512 pattern depth per channel
 - 16 channels -0.5 to 5.5V
 - 32 channels -20 to +34V
- 4 MHz vector rate (-0.5 to +5.5V channels only)
- Programmable vector timing, 50 ns resolution

- Selectable pull-up/pull-down resistors (-0.5 to +5.5V channels only)

Unit-Under-Test Interfaces

Switching Interface

- 4 wire resistance capability
- 40 high-frequency coaxial pins switchable to:
 - Counter/timer
 - Digitizing oscilloscope
 - Analog oscilloscope

- 160 SPDT general purpose relays
- 288 pins capable of switching 200V - peak to analog measurement instruments
- Internal switching for self-test and instrument synchronization

Cooling

- Forced Air Unit

H2610: The right choice for your depot level test requirements!

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