



Photo Courtesy of Department of Defense



## H337H-2 Engine Performance Analyzer CT7 (PACT7)

**The H337H-2 Engine Performance Analyzer is an on-wing performance analyzer specifically designed to test the General Electric CT7 engine.**

Incorporating performance equations and algorithms approved by General Electric, the analyzer automatically computes, displays and prints performance margins and requirements for CT7 engines.

The PACT7:

- Verifies engine performance during troubleshooting and after module replacement
- Permits on-wing Interturbine Temperature (ITT) trim adjustment
- Verifies aircraft ITT, torque and speed accuracies in the specific engine applications
- Requires minimal time for set-up and testing
- Measures and displays various engine parameters and calculates functions during flight line and test cell engine runs including:
  - ITT Setting (Trim Resistor)
  - ITT and Gas Generator Speed Margins
  - Compressor Efficiency
  - Cockpit Gage Verification (ITT, Torque, Gas Generator Speed and Propeller Speed)



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# PORTABLE ENGINE TEST SETS & TRIMMERS

## H337H-2 Series Engine Performance Analyzer

### Components:

- The Data Acquisition Unit, contained in a ruggedized, deployable housing with snap locks and carrying handle, collects and transmits data.
- The Display Terminal (DT) provides operator interface to the system. It is a rugged notebook computer system with a color touch screen display that displays test results in real time.
- Accessory kits containing cables, hoses and sensors applicable to a particular engine provide the necessary interface between the test set and the engine. The test equipment and accessory kits are stowed in portable cases, which also serve as protective shipping containers.



Specifications		
<b>Input Signals:</b>		
Signal Type	Parameter	Accuracy
DC Voltage	PAMB, Ps3, Q	±0.1 %Full-Scale
Isolated Thermocouple	ITT	±2 °C
Non-isolated Thermocouple	T3A, T3B, Twf	±2 °C
100 Ohm RTD/mV DC	TAMB	±0.3 °C
Frequency	Ng, Np, Wf1, Wf2	±0.031 %Full-Scale
<b>Data Acquisition Unit (DAU):</b>		
Power Requirement	85 to 265 VAC, 50 to 400 Hz or 28 VDC	
Size	10.2 inches H x 15.6 inches W x 11.0 inches D	
Tester Weight	Approximately 35 lbs	



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