



## H301 Series Environmental Control System Tester

The H301 Series Environmental Control System (ECS) Tester measures and displays parameters required to test and troubleshoot aircraft heating and air conditioning systems. These parameters include temperatures, pressures, resistances, AC and DC voltages, and DC currents.

Housed in a wheeled accessory case that holds cables, pressure hoses, adapters and a temperature probe, the tester comes complete with all required instrumentation to maximize mission readiness.

### Temperature System

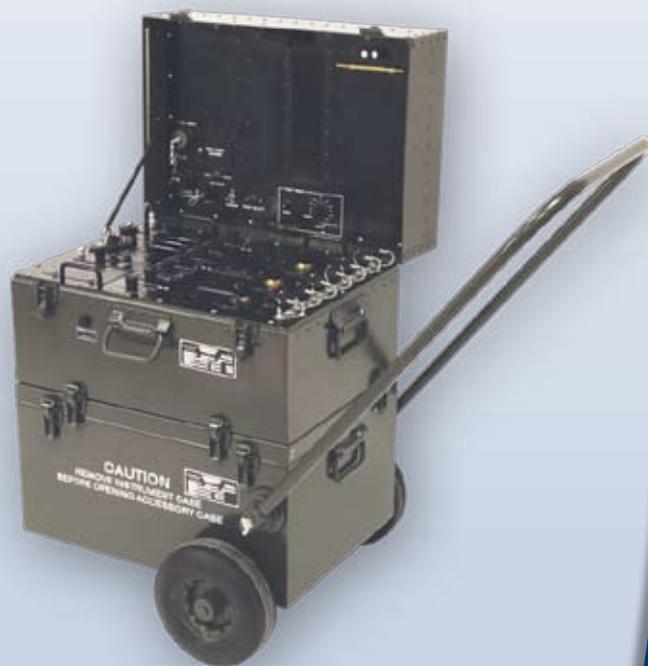
Typically, the ECS Tester measures temperatures of the cockpit air supply, the avionics cooling air, the manifold and ambient air. A precise, internally-generated temperature signal is also available to verify proper operation of the H301 temperature measuring circuitry.

### Pressure System

The pressure measuring system includes four different pressure transducers that measure from 0 to 20 inches of H<sub>2</sub>O and from 0 to 15, 0 to 60, and 0 to 300 psig. A single pressure can be connected to the 15 inch H<sub>2</sub>O transducer, while four pressures, selectable by deck-mounted valves, can be connected to each of the other three psig transducers.

### Multimeter

The ECS Tester also includes an automatic ranging multimeter that permits the operator to measure voltages, currents and resistances to aid in troubleshooting valves, controllers and sensors in the environmental control system.



# PORTABLE ENGINE TEST SETS & TRIMMERS

## Specifications

| Temperature           |                                       |
|-----------------------|---------------------------------------|
| Input Signal          | Platinum resistance probe             |
| Range                 | -65 to 999 °F in 1 °F increments      |
| Pressure              |                                       |
| Input                 | Pressure                              |
| Transducer Ranges     | 0 to 15.0 inches H <sub>2</sub> O     |
|                       | 0 to 15.0 psig                        |
|                       | 0 to 60.0 psig                        |
|                       | 0 to 300 psig                         |
| DC Current            |                                       |
| Range                 | 0 to 50.00 mA                         |
|                       | 0 to 500.0 mA                         |
| DC Volts              |                                       |
| Range                 | 0 to 500 mV                           |
|                       | 0 to 1 VDC                            |
|                       | 0 to 5 VDC                            |
|                       | 0 to 50 VDC                           |
| AC Volts              |                                       |
| Range                 | 0 to 500 VAC                          |
| Resistance            |                                       |
| Range                 | 0 to 100 ohms                         |
|                       | 0 to 1,000 ohms                       |
|                       | 0 to 10,000 ohms                      |
|                       | 0 to 100,000 ohms (10 ohm increments) |
| <b>Power Required</b> | 28 (±4) VDC, 1.5A maximum             |
| <b>Dimensions</b>     | (excluding handle and wheels)         |
| Instrument Case       | 9.75" H x 16" W x 9.75" D             |
| Accessory Case        | 28" H x 21.5" W x 22" D               |
| <b>Weight</b>         | 63.5 lbs (including accessories)      |

### Display and Deck Lighting

The ECS Tester uses a 0.4-inch high, seven segment, LED display. A display test button and display brightness control are also provided, and a light located in the lid of the ECS Tester provides deck lighting during nighttime operation.



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