



## High-Accuracy Automated Air Data Test Set (with pumps)

*Specifications on back*

## Models 6580 & 6580-HA Automated Air Data Test Sets ( with built-in pumps )

The 6580 & 6580-HA (High-Accuracy) Air Data Test Sets are rack-mount units with built-in pressure and vacuum pumps featuring quiet operation. These test sets can be used to test and calibrate altimeters, airspeed / Mach indicators, Climb indicators, Flight data recorders, Air data computers, and EPR indicators. The high accuracy of these units meets all RVSM requirements. Also, they need to be calibrated only once a year. The use of "Profiles" makes it possible for the operator to run through a test using only a single key on the front panel keypad of these units. The 6580 & 6580-HA are easy to use, accurate and reliable.

### Specifications

#### Static Output

| Parameter           | 6580   | 6580-HA   |
|---------------------|--|---|
| Pressure range      | 0.1 to 42 inHg   | 0.1 to 38 inHg  |
| Pressure resolution | 0.001 inHg   | 0.0001 inHg   |
| Pressure accuracy   | 0.002 inHg   | 0.001 inHg  |
| Altitude range      | -4k to 100k ft.  | -4k to 100k ft.   |
| Altitude resolution | 1 foot   | 1 foot  |
| Altitude accuracy   | 2 ft. @ 0 ft.<br>6 ft. @ 35k ft.<br>12 ft. @ 50k ft.<br>50 ft. @ 80k ft. | 1 ft. @ 0 ft.<br>3 ft. @ 35k ft.<br>6 ft. @ 50k ft.<br>25 ft. @ 80k ft. |
| Climb range         | 0 to 50k ft/min  | 0 to 50k ft/min   |
| Climb resolution    | 1 ft/min   | 1 ft/min  |
| Climb accuracy      | 1% of ROC  | 1% of ROC   |
| Units               | Feet, meters, inHg, mbar<br>Additional units may be added                |   |

#### Pitot output

| Parameter           | 6580   | 6580-HA   |
|---------------------|--|---|
| Pressure range      | 0.1 to 100 inHg  | 0.1 to 100 inHg   |
| Pressure resolution | 0.001 inHg   | 0.0001 inHg   |
| Pressure accuracy   | 0.003 inHg   | 0.002 inHg  |
| Airspeed range      | 0 to 1000 knots  | 0 to 1000 knots   |
| Airspeed resolution | 0.1 knot   | 0.1 knot  |
| Airspeed accuracy   | 0.5 kt @ 50 kts<br>0.25 kt @ 100 kts<br>0.1 kt @ 300 kts<br>0.01 kt @ 1000 kts           | 0.3 kt @ 50 kts<br>0.16 kt @ 100 kts<br>0.07 kt @ 300 kts<br>0.01 kt @ 1000 kts |
| Airspeed rate       | 0 to 800 kts/min   | 0 to 800 kts/min  |
| Mach range          | 0 to 5.0 Mach  | 0 to 5.0 Mach   |
| Mach resolution     | 0.001 Mach   | 0.001 Mach  |
| Mach accuracy       | 0.001 above 0.2 M  | 0.001 above 0.2 M   |
| Units               | Knots, Mach, kmph, EPR,<br>inHg, mbar, Qc inHg, Qc mbar<br>Additional units may be added |   |

#### EPR function

range: 0 to 199  
 resolution: 0.001  
 accuracy: 0.002 typ.

#### "Jog" feature

Allows set-point to be increased or decreased in small steps simply by using arrow keys.

#### "Profiles" feature

A profile of the standard set-points of an altimeter check or airspeed check can be downloaded from a computer. Such a profile allows the user to operate the unit using a single key. Up to 20 such profiles can be stored in the unit.

#### Pressure & Vacuum system

Each unit includes one pressure pump and two vacuum pumps for higher reliability. The pressure system includes a membrane dryer and filter to provide clean dry air for the entire system.

All pumps have a minimum life of 5000 operating-hours.

#### Power requirement

90-260 VAC, 48-440 Hz., 200 VA

#### Interfaces

RS232 and IEEE-488; Encoder optional  
 Model 6505 Remote Unit optional

#### Dimensions & weight

4U Rack-mount design  
 7.0" high x 19.0" wide x 20.0" deep / 30 lbs

#### Environmental specs:

Operating temp. 0° to 50°C  
 Storage temp. -25° to 75°C  
 Humidity: 5 to 95% non-condensing

*Specifications subject to change without notice*

02/13



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