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6500 / 6500-HA



High-Accuracy Automated Air Data Test Set

Specifications on back

The 6500 & 6500-HA (High-Accuracy) Air Data Test Sets require only a pressure source and a vacuum source and are extremely simple to use. They 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 6500 & 6500-HA are easy to use, accurate and reliable.

Specifications

Static Output

Parameter	6500	6500-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. 6 ft. @ 35k ft. 12 ft. @ 50k ft. 50 ft. @ 80k ft.	1 ft. @ 0 ft. 3 ft. @ 35k ft. 6 ft. @ 50k ft. 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 Additional units may be added	

Pitot output

Parameter	6500	6500-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 0.25 kt @ 100 kts 0.1 kt @ 300 kts 0.01 kt @ 1000 kts	0.3 kt @ 50 kts 0.16 kt @ 100 kts 0.07 kt @ 300 kts 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, inHg, mbar, Qc inHg, Qc mbar 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.

Vacuum requirement

Vacuum pump should be capable of generating a vacuum of 0.3 inHg absolute or better.

Pressure requirement

Dry Air (No Nitrogen) at 40 psig with a pressure-regulator dedicated to this unit.

Power requirement

90-260 VAC, 48-440 Hz., 100 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 / 25 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

