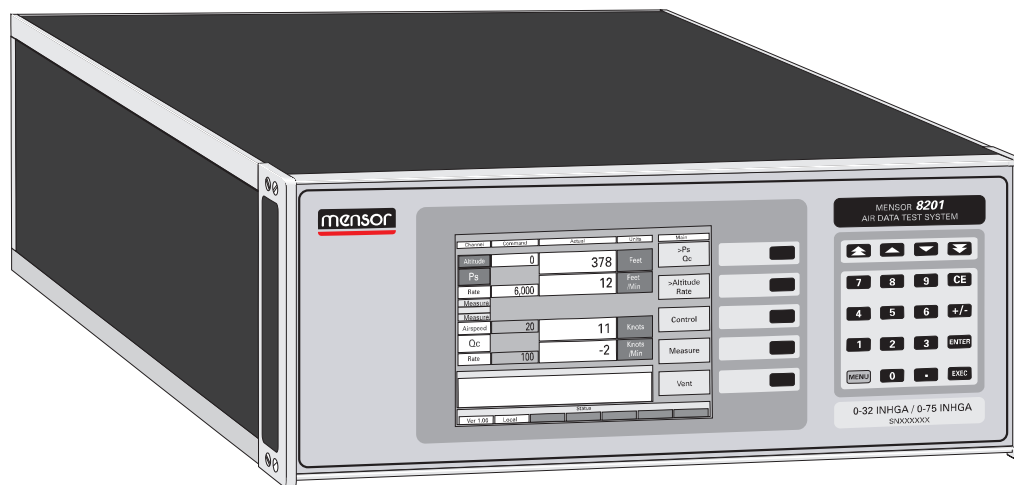


AIR DATA TEST SET

Data Sheet No. CDS8201B

AIR DATA TEST SET DUAL CHANNEL PRESSURE CONTROLLER MODEL 8201



FEATURES

- 0.010% FS accuracy
- Color VGA screen
- User friendly interface
- Simultaneous display of Ps and Qc

OPTIONS

- Helicopter configuration
- Military configuration
- Commercial configuration

DESCRIPTION

The **Model 8201** Air Data Test Set (ADTS) is a dual channel, precision pressure controller that simulates altitude (Ps) and airspeed (Qc) to test various avionics instruments such as altimeters, air data computers, rate of climb meters and vertical speed indicators. The **Model 8201** has the capability of generating and measuring two accurate pressures and pressure rates simultaneously. Each channel utilizes high performance silicon sensors to provide high accuracy and excellent long term stability.

Information for both pressure channels is provided on a color VGA display. Key parameters for both channels are displayed simultaneously so that the user is able to enter separate commands for Ps and

Qc. When the ADTS is in operation, there are two different display screens that provide user information. The “main” screen provides the following information for each channel: channel data, command pressure, actual pressure and pressure units. After progressing through the setup screen, the operator normally will only use the main screen for active operation of the ADTS.

The pressure range of the Ps channel is typically 0 to 32 inHgA and the Qc channel will typically vary from 32 to 60 inHgA. The accuracy of the pressure readings is 0.010% of full scale for either the Ps or Pt channel.

MENSOR 8201 ADTS SPECIFICATIONS

Specification	Units of Measure	8201-H Helicopter	8201-C Commercial	8201-M Military	8201-S Special Ranges
Accuracy - Ps Sensor	% FS	0.01	0.01	0.01	0.01
Accuracy - Pt Sensor	% FS	0.01	0.01	0.01	0.01
Range - Ps Sensor	inHgA	1.6 to 32	1.6 to 35	0.3 to 35	0.3 to 32-35
Range - Altitude	Feet	-1700 to 65000	-4000 to 65000	-4000 to 100000	Selectable -4000 to 100000
FS Range - Pt Sensor	inHgA	38.5	57	103.5	38.5 to 122
Range - Airspeed @ sea level	Knots	10 to 400	20 to 650	20 to 1000	20 to 1100
Max. Range - Qc (dependent on Altitude or Ps setting)	inHg	4.5 to 36	22 to 55.3	68.5 to 101.8	varies
Resolution - Ps Channel	inHg	0.0001	0.0001	0.0001	0.0001
Resolution - Ps Channel	Feet	1	1	1	1
Resolution - Pt Channel	inHg	0.0001	0.0001	0.001	0.001
Resolution - Pt Channel	Knots	1	1	1	1
Control Stability	% FS pressure	0.002	0.002	0.002	0.002

NOTE: Mensor does not use RMS or RSS techniques to make specifications appear any better than they actually are. Primary standard uncertainties should be used in the evaluation of equipment performance. The specifications shown by Mensor are worst case conditions and allow the user to make an honest evaluation of the instrument.

Since product improvement is a continuous process at Mensor, we reserve the right to change specifications without notice.

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