

PC6-AV

PRESSURE CALIBRATOR - AEROSPACE VERSION



The robust PC6-AV is the most recent development in aerospace calibration utilising 'state of the art' technology to provide versatility and flexibility. It is designed as a 2bar / 30psi absolute unit which can be used as a barometer. The PC6-AV can calibrate Air Speed Indicators, Altimeters, and also perform leak tests on the pitot system. It can be used with all types of aircraft.

The system is supplied with a TP1 scissor action pump or the LTP1 low pressure pump with fine control. Both pumps incorporate adjustable over pressure protection, to avoid over pressurising units under test. All equipment can be supplied in self contained aluminium cases providing complete portable calibration systems.

The clear and simple LCD display has a back light facility for ease of use in poor light situations.

Features

- Small and portable
- Simple operation - Menu driven
- Pitot Static Air Speed measurement in knots
- Barometric pressure measurement
- Altitude measurement (metres / feet)
- Airfield barometric pressure measurement at sea level (QFF)
- Pitot Static Leak Test
- Leak period 1 second to 99 days
- Maximum and minimum pressure measurement
- Tare pressure offset values
- Temperature display
- Display hold facility
- Data Logging
- RS232 Communication
- Accuracy $\pm 0.025\%$ fsd.
- Robust extruded housing



www.si-pressure.com

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CERTIFICATE No. FM 20157



PC6-AV SPECIFICATIONS

Pressure Range (FS)	0 to 2bar/30psi (+60 inHg) absolute. 0 to 600 knots*
Overload Pressure (FS)	10%
Accuracy (FS) Better than	0.025%
Resolution (FS) Better than	0.01%
Pressure Units	mbar, inHg, knots, kPa, psi, atm, inH ₂ O, mH ₂ O, mmH ₂ O, bar, mmHg, unit1, unit2
Altitude *	Measured in feet or metres with a range of -3,000 ft to 105,000 ft.
Overload Warning	Flashing display and audible tone at 110% of FS
Temperature Display	Temperature of pressure sensor module
Operating Temperature	-20 to 70°C
Calibration Temperature	20°C ± 2°C
Storage Temperature	-40°C to 70°C
Temperature Effects	0.001% of reading/°C between 10-40°C
RS232 Parameters	baud rate 110, 300, 1200, 2400, 4800, 9600, stop bits 1 or 2, status ON/OFF
Zero Reset	Manual keyboard operation
Data Capacity	175 records into a maximum of 20 files, 8k memory (additional 204 records, 8k memory option available)
Display	Backlit LCD, 16 character x 2 line alpha numeric
Humidity	5 to 95% Relative Humidity non condensing
Resolution Select	Increase or decrease by a factor of 10
Power Supply	6V rechargeable battery pack / mains operation via charger (supplied)
Battery Life	Fully charged - 10 hours
Recharge Time	14-16 hours for full charge
Low Battery	Continuous check, audio and visual warning
Dimensions	330 x 110 x 59mm
Weight	1.5 kg
Microprocessor	H8/3257
Recommended Recal Period	1 Year
Electrical Connections	Battery 2 pole miniature round connector RS232 8 pole miniature round connector
Pressure Media	Non-corrosive gases (for other media, contact SI)
Pressure Connections	3/8" BSP Quick-fit. 8mm O/D hose connector
Software (optional)	The ' SiCal ' software will present downloaded data in various graphical forms such as gauges or a scrolling bar & remotely control the PC6-AV via the RS232 cable linked to a PC. The downloaded data can be stored in a variety of file types compatible with most analysis, database and word processing programs.
System requirements:	486 with maths coprocessor. Windows 3.1 or higher is required.

* knots, Altitude:
Pressure to airspeed and altitude conversion using '**British Standard 2G 199 :1984**'

Order Codes

PC6-0002A-I-X-P-AVT PC6-AV with TP1 pump, adaptor set and seals complete with carrying case.
PC6-0002A-I-X-P-AVL PC6-AV with LTP1 Low pressure pump, adaptor set and seals complete with carrying case.

Replace 'X' with '1' for UK, '2' for Europe or '3' for USA Battery Charger.

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