

# PC6-PRO-B

## BENCH & PANEL-MOUNT VERSION

The PC6-Pro-B combines all the latest developments in pressure instrumentation with advanced sensor and component technology to offer a versatile calibration instrument. The PC6-Pro-B utilizes a silicon-based sensor and offers 0.025% FS accuracy.

It is designed for accurately testing and calibrating the following types of instruments: Pressure Transducers/Transmitters, Pressure Switches/Relief Valves, Pressure Indicators (analog/digital), Process Indicators and Pressure Converters.

The modular design of the PC6-PRO allows for a customized calibrator to be created, giving minimal functions if a non-complex instrument is required (i.e. A simple pressure indicator). Alternatively, fully featured calibration systems can be supplied, accommodating various pressure ranges using external pressure modules (EPM) or Digital Pressure modules (DPM).

The PC6 PRO can be supplied with our hand held test systems: LTP1 Low Pressure pneumatic test system -1 to 3 bar (-30 inHg to 45 psi), TP1 Pneumatic pressure test system -1 to 40 bar (-30 inHg to 600 psi), HTP1 Hydraulic pressure test system to 700 bar (10,000 psi).



### KEY FEATURES

- **Small and Portable**
- **Pressure Measurement Range**  
-30 inHg to 10,000 psi
- **Dual Range Option Available**
- **Voltage and Current Measurement and Sourcing**
- **Two-Wire Transmitter Simulation**
- **Simultaneous Display of Pressure and Selected Function**
- **Timed/Event Data Storage with Date and Time Stamping**
- **Up and Download Cal Procedures via RS232 Interface**
- **Pressure Switch Test**
- **Supply Output for Transducer/Transmitter**
- **Pressure Module Temperature Measurement**

### SPECIFICATIONS

MODEL	CODE	TYPE	RANGE	PSI ACCURACY (FS)
PC6-B-0.07-C-1	0.07	Vented Gauge	-70 to 70 mbar/1 psi	0.025%
PC6-B-0.20-C-1	0.20	Vented Gauge	-200 to 200 mbar/3 psi	0.025%
PC6-B-0.35-C-1	0.35	Vented Gauge	-350 to 350 mbar/5 psi	0.025%
PC6-B-0.70-C-1	0.70	Vented Gauge	-700 to 700 mbar/10 psi	0.025%
PC6-B-1-C-1	1	Vented Gauge or Absolute	-1 to 1 bar/15 psi	0.025%
PC6-B-2-C-1	2	Vented Gauge or Absolute	-1 to 2 bar/30 psi	0.025%
PC6-B-3.5-C-1	3.5	Vented Gauge or Absolute	-1 to 3.5 bar/50 psi	0.025%
PC6-B-7-C-1	7	Vented Gauge or Absolute	-1 to 7 bar/100 psi	0.025%
PC6-B-10-C-1	10	Vented Gauge or Absolute	-1 to 10 bar/150 psi	0.025%
PC6-B-20-C-1	20	Vented Gauge or Absolute	-1 to 20 bar/300 psi	0.025%
PC6-B-35-C-1	35	Vented Gauge or Absolute	-1 to 35 bar/500 psi	0.025%
PC6-B-70-C-1	70	Sealed Gauge or Absolute	0 to 70 bar/1,000 psi	0.025%
PC6-B-100-C-1	100	Sealed Gauge or Absolute	0 to 100 bar/1,500 psi	0.025%
PC6-B-200-C-1	200	Sealed Gauge or Absolute	0 to 200 bar/3,000 psi	0.025%
PC6-B-350-C-1	350	Sealed Gauge or Absolute	0 to 350 bar/5,000 psi	0.025%
PC6-B-700-C-1	700	Sealed Gauge or Absolute	0 to 700 bar/10,000 psi	0.025%

## PC6-PRO BENCH SERIES, CONTINUED

### SPECIFICATIONS, CONTINUED

OVERLOAD PRESSURE	10% FS			
RESOLUTION	6 Digits			
PRESSURE UNITS	bar, mbar, MPa, kPa, psi, kg/cm <sup>2</sup> , atm, inH <sub>2</sub> O, mH <sub>2</sub> O, mmH <sub>2</sub> O, inHg, mmHg, unit1, unit2 (user defined)			
OVERLOAD WARNING	Flashing display and audible tone at 110% of FS			
TEMPERATURE DISPLAY	Temperature of pressure sensor module (Accuracy: ± 0.5°C)			
MEASUREMENT	RANGE	RESOLUTION	ACCURACY	INPUT RESISTANCE
VOLTAGE* (AUTO RANGE)	0 to 100mV	1uV	0.025% FS	1 M
	0 to 5V	0.1mV	0.025% FS	1 M
	0 to 50V	1mV	0.025% FS	1 M
CURRENT*	0 to 50mA	1uA	0.025% FS	3
SOURCING	RANGE	RESOLUTION	ACCURACY	MAX. LOAD
VOLTAGE*	0 to 10V	0.2mV	0.025% FS	20mA
	0 to 50mA	1uA	0.025% FS	330
VOLTAGE OUTPUT				
REGULATED DC SUPPLY	10V ± 0.1% max. current 10mA			
UNREGULATED DC SUPPLY	24V ± 10% max. current 50mA			
PRESSURE SWITCH TEST	Status OPEN / CLOSED			
OPERATING TEMPERATURE	0 to 50°C			
CALIBRATED TEMPERATURE	20°C ± 2°C			
CALIBRATED TEMPERATURE RANGE	0 to 50°C			
STORAGE TEMPERATURE	-20 to 70°C			
TEMPERATURE EFFECTS	0.001% of reading /°C between 0 to 50°C			
ZERO RESET	Manual keyboard operation			
DATA CAPACITY	437 records into a maximum of 20 files, 32k memory (additional 585 records, 32k memory option available)			
DISPLAY	Backlit LCD, 16 characters x 2 line alpha numeric			
PRESSURE MEDIA	Water, Oil, Non-corrosive gases			
HUMIDITY	5 to 95% relative humidity non condensing			
POWER SUPPLY	6V NiMH rechargeable battery with charger			
BATTERY LIFE	Up to 10 Hours fully charged			
LOW BATTERY	Continuous check, audio and visual warning			
DIMENSIONS	7.9 x 7 x 3.3 in. (200 x 180 x 85mm)			
WEIGHT	4 lbs. (1.8 kg) approx.			
ELECTRICAL CONNECTIONS				
GROUND, VOLTAGE/CURRENT INPUT/OUTPUT, PRESSURE SWITCH	Standard 4mm sockets			
PRESSURE CONNECTIONS	'Quick-Fit' / 1/4BSP or 1/4NPT female / 9/16 UNF x 18 Female Cone above 1000bar (15,000psi)			
SOFTWARE (OPTIONAL)	'SiCalPro' will allow users to control the PC6 remotely through a virtual instrument panel on the computer screen. The calibration data can be logged, viewed and printed in graphical format or on a calibration certificate.			
SYSTEM REQUIREMENTS	486 with maths coprocessor. Windows 95 or higher			

\*Temperature coefficient ± 0.005% of reading / °C with respect to 20°C