

Voltage and current measurement and sourcing
Pressure to current or voltage conversion and viceversa
Two wire transmitter simulation
Simultaneous display of pressure and selected function
Pressure switch test
Leak rate measurement 1 second to 999 days
Display hold facility
Tare and maximum and minimum pressure measurement
Supply output for transducer / transmitter
Alternative languages available e.g. French, German, Italian, Spanish
External pressure module (IDOS) for required pressure ranges



The PC6-PRO Pressure Calibrator combines the latest developments in pressure instrumentation with advanced sensor and component technology to offer a versatile calibration instrument. It is designed for accurately testing and calibrating Pressure Transducers, Pressure Transmitters, Pressure Switches, Pressure Relief Valves, Analogue Instrumentation (Pressure Gauges). The compact size of the PC6-PRO does not compromise functionality. It can simultaneously show pressure versus voltage, current, date & time, percentage of pressure and pressure switch status, temperature, maximum and minimum pressure values. PC6-PRO can source current and voltage using various options e. g. continuous, step or square root functions. The modular design of the PC6-PRO allows for a customised calibrator to be created, giving minimal function if a non-complex instrument is required (i.e. A simple pressure indicator). Alternatively, fully featured calibration system can be supplied accommodating various pressure ranges using external pressure modules (IDOS).

PC6 PRO-I (Indicator)

PC6 PRO-C (Calibrator)

Ranges: from Vacuum to 10.000 psi (vacuum to 700 bar).

Pressure units: bar, mbar, MPa, kPa, psi, kg/cm², atm, inH₂O, mH₂O, mmH₂O, inHg, mmHg, unit1, unit2 (user defined).

Standard accuracy: ± 0,025% of F.S.

Display resolution: 6 digits.

Overload warning: audio and visual warning at 115% of F.S.

Temperature display: temperature of pressure sensor module.

Voltage measurement: 0...100 mVdc; 0...5Vdc; 0...50 Vdc (1).

Current measurement: 0...50 mA (1).

Current sourcing: 0...50 mA (1).

Voltage sourcing: 0...10 V (1).

Voltage Output: regulated DC supply 10V ± 0,1% max current 10mA; Unregulated DC supply 24V ± 10% max current 50mA (1).

Pressure switch test: status OPEN/CLOSED with audio and visual warning (1).

Operating temperature: 32°F to 122°F (0° to 50°C).

Calibration temperature: 68°F (20°C) ± 5,6°F (2°C).

Calibrated temperature range: 41°F to 113°F (5° to 45°C).

Storage conditions: -4°F to 158°F (-20 to 70°C). -

Temperature effects: they are included in the accuracy.

RS 232 parameters: Baud rate 1200,2400,4800,9600, 19200 & 38400 stop bits 1 or 2, status ON or OFF.

Zero Reset: manual -keyboard operation.

Data capacity: 426 records into a max. 20 files, 32k memory.

Display: backlit LCD, 16 characters x 2 lines alpha numerics.

Pressure media: water, oil, non corrosive gases.

Resolution select: increase or decrease by a factor of 10.

Power supply: 6V rechargeable battery / mains operation via charger (supplied).

Battery life: 8 hours fully charged.

Low battery: continuous check, audio and visual warning.

Dimensions: (LxWxH) 3.6 x 4.3 x 2.3 in (92 x 110 x 59 mm).

Weight: 32 oz (0.85 Kg).

Pressure connection: (2)

3/8" BSP male "quick-fit" to 3/8" BSP or NPT male (Pneumatic)

3/8" BSP female "quick-fit" to 3/8" BSP or NPT male (Hydraulic)

NOTE

(1) The PC6 PRO -I (Indicator) does not include the Voltage/Current input/output and the IDOS connection.

(2) BSP connection only bar units / NPT connection only psi units

MODELS AND RANGES

Model	Version	Code	Range		Overload pressure	Accuracy F.S.
			bar	psi		
PC6-PRO-I (Indicator)	G	0101	-0,07...0,07	1	15 %	0,05 %
	G / A	1001	-1...1	15	15 %	0,025 %
	G / A	1002	-1...2	30	15 %	0,025 %
	G / A	1003	-1...3,5	50	15 %	0,025 %
	G / A	1007	-1...7	100	15 %	0,025 %
	G / A	1010	-1...10	150	15 %	0,025 %
PC6-PRO-C (Calibrator)	G / A	1020	-1...20	300	15 %	0,025 %
	G / A	1035	-1...35	500	15 %	0,025 %
	SG/A	0070	0...70	1000	15 %	0,025 %
	SG/A	0100	0...100	1500	15 %	0,025 %
	SG/A	0200	0...200	3000	15 %	0,025 %
	SG/A	0350	0...350	5000	15 %	0,025 %
	SG/A	0700	0...700	10000	15 %	0,025 %

Other pressure ranges are available to special order.
G= Vented Gauge, A= Absolute, SG= Sealed Gauge

Pressure voltage and current measurement

Measurement	Input	Range	Resolution	Accuracy (FS)	Input resistance
Voltage * (Auto Range)	mV	0...100 mV	1mV	0,025%	1 Mohm
	V	0...5 V	0.1 mV	0,025%	1 Mohm
		0...50 V	1 mV	0,025%	1 Mohm
Current *	mA	0...50 mA	1µA	0,025%	6 Mohm

Pressure voltage and current sourcing

Sourcing	Output	Range	Resolution	Accuracy (FS)	Max. Load
Voltage *	V	0...10 V	0,2mV	0,025%	20mA
Current *	mA	0...50 mA	1µA	0,025%	330 ohm

*Temperature coefficient $\pm 0,005\%$ of reading / °C with regards to 20 °C

OPTIONS

SiCal software will remotely control the PC6-PRO via RS232 connection cable, and allows calibration procedure.

IDOS module has been developed to work in conjunction with the It adds additional pressure ranges without incurring the full cost of extra calibrators.

"HOW TO ORDER" SEQUENCE

Section / Model / Version / Range / Options