

PC6-IS INTRINSICALLY SAFE PRESSURE CALIBRATOR Ex ia IIC T4



CE 0359 Ex II 1 G

Certificate No. ITS00ATEX2018X



The PC6-IS is the Intrinsically Safe version of our popular PC6 Pressure Calibrator specifically designed for use in Hazardous Environments such as those found in the off-shore and petro-chemical industries.

The 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 the following types of pressure measuring instruments:

- Pressure Transducers
- Pressure Transmitters
- Pressure Switches
- Pressure Relief Valves
- Analogue Instrumentation (Pressure Gauges)

The PC6-IS is supplied with our hand held test systems:

LTP1 Low Pressure Pneumatic hand pump -1 to 2 bar (30 psi)

TP1 Pneumatic pressure hand pump -1 to 25 bar (360 psi)

HTP1 Hydraulic pressure hand pump 0 to 1000 bar (15,000 psi)

It can simultaneously show pressure versus voltage, current, date & time, percentage of pressure, pressure switch status, temperature, maximum or minimum pressure values . Data can be logged and stored with time and date stamping for future reference.

Features

- Low cost, small and portable
- Pressure measurement range -1 to 1000 bar / 15,000 psi
- Voltage and current measurement
- Simultaneous display of pressure and selected function
- Timed / Event data storage with date & time stamping
- RS232 data communication link (Non-Hazardous areas only)
- Rechargeable Batteries (Charged in Non-Hazardous area only)
- Pressure switch test
- Leak rate measurement 1 second to 999 days
- Maximum and minimum pressure measurement
- Display hold facility
- Tare pressure offset values
- Pressure module temperature measurement
- Resolution variation facility
- External pressure module (EPM) interchangeability for required pressure ranges
- Windows based software 'SiCal' for remote control operation and data transfer into many applications. (Optional)
- UKAS (NAMAS) Certification available



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CERTIFICATE No. FM 20157



PC6-IS Specification

Model		Range		Accuracy (FS)
		bar	psi	
PC6-IS-0.1-C	G or A	-0.1 to 0.1	1.5	0.025%
PC6-IS-1-C	G or A	-1 to 1	15	0.025%
PC6-IS-2-C	G or A	-1 to 2	30	0.025%
PC6-IS-5-C	G or A	-1 to 5	75	0.025%
PC6-IS-10-C	G or A	-1 to 10	150	0.025%
PC6-IS-20-C	G or A	-1 to 20	300	0.025%
PC6-IS-25-C	G or A	-1 to 25	360	0.025%

Model		Range		Accuracy (FS)
		bar	psi	
PC6-IS-40-C	G or A	-1 to 40	600	0.025%
PC6-IS-70-C	SG	0 to 70	1000	0.025%
PC6-IS-100-C	SG	0 to 100	1500	0.025%
PC6-IS-200-C	SG	0 to 200	3,000	0.025%
PC6-IS-350-C	SG	0 to 350	5,000	0.025%
PC6-IS-700-C	SG	0 to 700	10,000	0.025%
PC6-IS-1000-C	SG	0 to 1000	15,000	0.025%

Other Pressure ranges are available to special order.

G = Vented Gauge, A = Absolute, SG = Sealed Gauge

Contact **Si** for details and data sheet on Intrinsically safe EPM's (EPM-IS)

Pressure units bar, mbar, Mpa, kPa, lb/in², kg/cm², atm, inH₂O, mH₂O, mmH₂O, inHg, mmHg, unit1, unit2 (user defined)

Pressure Display Resolution 6 Digits

Overload Pressure 10% of FS

Temperature Display Temperature of pressure sensor module (Accuracy: ±0.5°C)

Environmental Conditions Non-dusty, non-corrosive

Operating Temperature 0 to 40°C

Calibration Temperature 20°C ± 2°C

Calibrated Temp. Range 10 to 40°C

Storage Temperature -20 to 70°C

Temperature Effects 0.001% of reading / °C between 10 to 40°C

Humidity 5 to 95% relative humidity non-condensing

DC	Input	Range	Resolution	Accuracy	Input resistance
Voltage measurement	mV	0 to 100mV	1µV	0.05%FS	>1 M
	V	0 to 5V	0.1mV	0.05%FS	>1 M
	Auto-range	0 to 50V	1mV	0.05%FS	>1 M
Current measurement	mA	0 to 50mA	1µA	0.05%FS	2

Pressure Switch Test Status OPEN / CLOSED

RS232 Parameters Baud rate 110, 300, 1200, 2400, 4800, 9600, stop bits 1 or 2, status ON or OFF

Zero Reset Manual - keyboard operation

Data Capacity 719 records into a maximum of 20 files, 32k memory (additional 744 records, 32k memory option available)

Display LCD, 16 characters x 2 line alpha-numeric

Pressure Media Water, Oil, Non-corrosive gases (for other media contact **Si**)

Resolution Select Increase or decrease by a factor of 10

Power Supply 7.2V NIMH rechargeable battery pack / mains operation via charger (supplied) (To be charged in Non-Hazardous areas only)

Battery Life 10 Hours fully charged

Low Battery Continuous check, audio and visual warning

Dimensions 92 x 110 x 60mm

Weight approx. 1.2 kg

Electrical Connections

Ground	Standard 2mm socket
Voltage / Current Input	Standard 2mm sockets
Pressure Switch Input	Standard 2mm sockets
Battery Charger	2-pole miniature round connector
RS232	8-pole miniature round connector
EPM	14-pole miniature round connector

Pressure Connections 3/8BSP male 'quick-fit' / 1/4BSP or 1/4NPT male (Pneumatic)

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

Software (optional) 'SiCal' will allow users to control the PC6 Calibrator 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. (To be used in Non-Hazardous areas only)

System Requirements: 486 with maths coprocessor.
Windows 3.1 or higher.

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