

PC-30 SERIES

PRESSURE CALIBRATORS

PC-30 Series are small - pocket sized and rugged - housed in a splashproof aluminium case. Designed to provide laboratory accuracy under outdoor field conditions, the PC-30 Series is fully temperature compensated over the range 0 - 50°C. No need for clean dry air - the PC-30 Series are compatible with gases or liquids.

Available as a dual sensor version, PC-33, which has two pressure ports and can display both pressure readings simultaneously or applied pressure and mA, or a single sensor version, PC-31, which displays applied pressure and mA simultaneously on the 2-line LCD display.

- Accuracy: 0.05% of reading
- Measure vacuum to 3000 psi without extra modules in up to 8 engineering units
- Fully temperature compensated over the range 0 - 50°C
- Single 9V battery provides up to 60 hours of continuous operation
- Supplied complete with UKAS Calibration Certificate and carry case with belt clip.
- Intrinsically Safe - EEx ia IIC T4



PC-33
Two Standard Versions

PC-33 High
Low Pressure - Range: -14.7 to 36 psi (2 bar)
High Pressure - Range: 0 to 3000 psi (200 bar)

PC-33 Medium
Low Pressure - Range: -14.7 to 36 psi (2 bar)
High Pressure - Range: 0 to 300 psi (20 bar)
NON STANDARD VERSIONS ARE AVAILABLE ON REQUEST AND INCLUDE -14.7 to 16 psi (1 bar) sensor and 0 to 1500 psi (100 bar) sensors.

SPECIFICATIONS

LOW PRESSURE
Operating Range: -14.7 to 36 psi (2 bar)
Maximum Pressure: 100 psi (7 bar)
Accuracy:
Pressure: $\pm(0.05\%$ of reading + 0.005% of Full Scale (36 psi)
Vacuum: $\pm(0.25\%$ of reading + 0.004 psi)

HIGH PRESSURE (PC-33 High)
Operating Range: 0 to 3000 psi (200 bar)
Maximum Pressure: 4,500 psi (300 bar)
Accuracy: $\pm(0.05\%$ of reading + 0.005% of Full Scale (3000 psi)

SCALE	RESOLUTION
mBar	0.1
inH2O	0.01
psi	0.001
kPa	0.01
mmH2O	1
mmHg	0.01
inHg	0.001
kg/cm ²	0.0001

SCALE	RESOLUTION
psi	0.1
bar	0.01
Mpa	0.001
kg/cm ²	0.01
kPa	1

SCALE	RESOLUTION
bar	0.001
inH ₂ O	0.1
psi	0.01
kPa	0.1
cmH ₂ O	1
mmHg	0.1
inHg	0.01
kg/cm ²	0.001

HIGH PRESSURE (PC-33 Medium)

Operating Range: 0 - 300 psi (20 bar)
 Maximum Pressure: 450 psi (31 bar)
 Accuracy: ±(0.05% of reading + 0.005% of Full Scale (300 psi))

NB: Specifications are for one year and include all effects of linearity, repeatability and temperature.

ELECTRICAL:

Range: 0 to 55mA
 Resolution: 0.001mA
 Accuracy: ±(0.025% of reading + 0.001mA)
 Percentage Conversion: 4mA = 0.00%, 20mA = 100% or 10mA = 0.00%, 50mA = 100%.

TEMPERATURE:

Operating Range: 0°C to 50°C (32°F to 122°F)
 Compensated Range: 0°C to 50°C (32°F to 122°F)
 Storage Range: -20°C to 70°C (-4°F to 158°F)

MEDIA COMPATIBILITY:

Liquids and gases compatible with PTFE (Polytetrafluoroethylene) penetrated, hard anodized, aluminium (transducer housing), 316 stainless steel (sensor), Viton (O ring).

POWER:

Battery: one standard 9V carbon or alkaline battery
 Battery Life: 60 hours typical (alkaline battery), Low battery indicator

CONNECTIONS:

Pressure Fitting: 1/8" female NPT
 Electrical: 4mm banana jack plugs

ENCLOSURE: Extruded aluminium with single function sealed membrane keypad.

DIMENSIONS: (H) 130mm x (W) 70mm x (D) 29mm

WEIGHT: 382g

PC-31

Three Standard Versions
 PC-31 Low Range: -14.7 to 36 psi (2 bar)
 PC-31 Medium Range: 0-300psi (20 bar)
 PC-31 High Range: 0-3000psi (200 bar)

LOW PRESSURE VERSION

Operating Range: -14.7 to 36 psi (2 bar)
 Maximum Pressure: 100 psi (7 bar)
 Pressure: ±(0.05% of reading + 0.005% of Full Scale (36 psi))
 Vacuum: ±(0.25% of reading + 0.004 psi)

SCALE	RESOLUTION
mBar	0.1
inH ₂ O	0.01
psi	0.001
kPa	0.01
mmH ₂ O	1
mmHg	0.01
inHg	0.001
kg/cm ²	0.0001

MEDIUM PRESSURE VERSION

Operating Range: 0 to 300 psi (20 bar)
 Maximum Pressure: 450 psi (31 bar)
 Accuracy: $\pm(0.05\%$ of reading + 0.005% of Full Scale (300 psi)

SCALE	RESOLUTION
bar	0.001
inH ₂ O	0.1
psi	0.01
kPa	0.1
cmH ₂ O	1
mmHg	0.1
inHg	0.01
kg/cm ²	0.001

HIGH PRESSURE VERSION

Operating Range: 0 - 3000 psi (200 bar)
 Maximum Pressure: 4500 psi (300 bar)
 Accuracy: $\pm(0.05\%$ of reading + 0.005% of Full Scale (3000 psi)

SCALE	RESOLUTION
psi	0.1
bar	0.01
Mpa	0.001
kg/cm ²	0.01
KPa	1

NB: Specifications are for one year and include all effects of linearity, repeatability and temperature.

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 Resolution: 0.001mA
 Accuracy: $\pm(0.025\%$ of reading + 0.001mA)
 Percentage conversion: 4mA = 0.00%, 20mA = 100% or 10mA = 0.00%, 50mA = 100%.

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