

PC30 SERIES

Pressure Calibrators

PC 30 Series Universal Pressure Calibrators

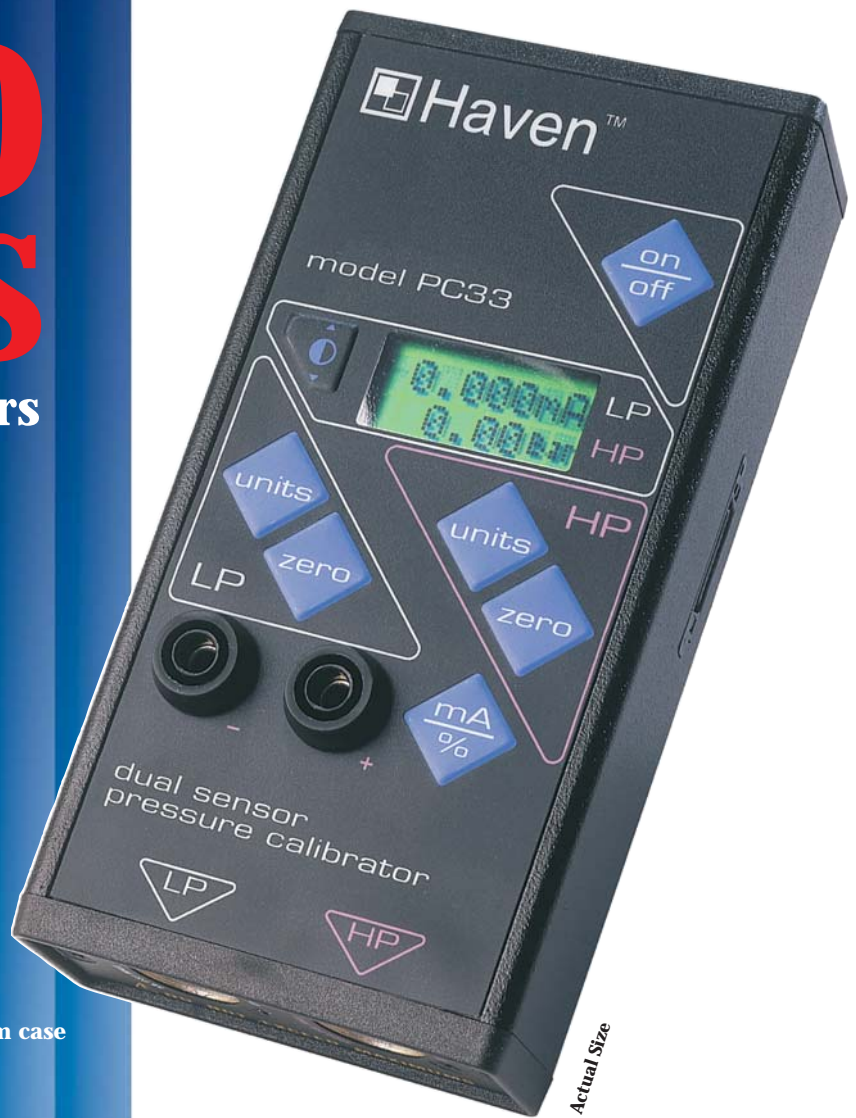
The PC 30 series of Universal Pressure Calibrators are pocket-sized, versatile and rugged, housed in a splashproof aluminium case and Intrinsically Safe (i.s.).

The PC31 model is available in 3 different pressure versions: Low (-14.7 to 36 psi), Medium (up to 300 psi) or High (up to 3000 psi). The PC33 models combine two ranges in a single unit: Low and Medium and Low and High, by means of dual sensor ports.

With an accuracy of 0.05% of reading, the stainless steel sensors can be used with gases or liquids- there is no need for clean dry air.

The PC 30 series are fully temperature compensated over the range of 0 - 50°C and in order to guarantee performance, the instruments are tested and calibrated in an environmental chamber to accurately simulate field conditions. The single 9V battery provides up to 60 hours of continuous operation.

The PC 30 series are supplied complete with a UKAS calibration certificate issued from our in-house accredited laboratory and a carry case with belt clip.



Features

- **The Smallest**
Smaller than any competing product.
- **The Easiest To Use**
Single-function keys - uses one 9V battery.
- **The Most Versatile**
Stainless steel sensors measure vacuum to 3000psi - without extra modules. Measures milliamps, too.
- **No Temperature Effect**
± 0.05% of reading accuracy from 0 to 50°C.
- **UKAS Certificate**
Included - at no extra cost.
- **Intrinsically Safe**
EEx ia IIC T4



Haven Automation Limited

Specifications

Pressure

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

PC31i.s. Low

Operating Range:-14.7 to 36 psi (2 bar)
 Maximum Pressure:100 psi (7 bar)
 Accuracy, Pressure:±(0.05% of reading
 + 0.005% of Full Scale [36 psi])
 Accuracy, Vacuum:± (0.25% of reading
 + 0.025% of Full Scale [-14.7 psi])

ScaleResolution

psi0.001
 mbar.....0.1
 kPa0.01
 mmH₂O.....1
 inH₂O0.01
 mmHg0.01
 inHg0.001
 kg/cm².....0.0001

PC31i.s. Medium

Operating Range:0 to 300 psi (20 bar)
 Maximum Pressure:450 psi (30 bar)
 Accuracy:±(0.05% of reading
 + 0.005% of Full Scale [300 psi])

ScaleResolution

psi0.01
 bar0.001
 kPa0.01
 cmH₂O1
 inH₂O0.1
 mmHg0.1
 inHg0.01
 kg/cm².....0.001

PC31i.s. High

Operating Range:0 to 3,000 psi (200 bar)
 Maximum Pressure:4,500 psi (300 bar)
 Accuracy:±(0.05% of reading
 + 0.005% of Full Scale [3,000 psi])

ScaleResolution

psi0.1
 bar0.01
 mPa0.001
 kg/cm².....0.01

PC33i.s. Low/Medium

Offers both the above Low/Medium ranges in one unit

PC33i.s. Low/High

Offers both the above Low/High ranges in one unit

Authorised Representative:



Electrical

Range:0 to 55 mA
 Resolution:0.001 mA
 Accuracy:±(0.025% of reading +
 0.001 mA)
 Percentage Conversion:4 mA=0.00%, 20 mA=100%
 or 10 mA=0.00%, 50 mA=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* 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, W 70mm, D 29mm
 Weight:382g

*PTFE: Polytetrafluoroethylene

Specifications subject to change without notice.



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