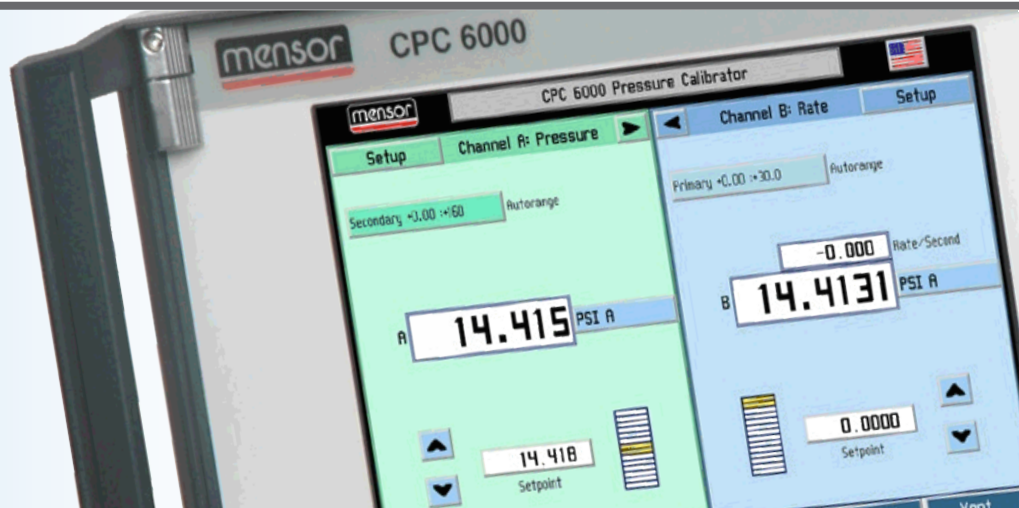


## Pressure Controllers



Calibration Dynamics Limited  
7 Regents Court South Way  
Walworth Industrial Estate  
Andover Hampshire SP105NX UK

Tel: +44 (0) 1264 339030 Fax: +44 (0) 1264 339040

E-mail: [sales@calibrationdynamics.com](mailto:sales@calibrationdynamics.com)

[www.calibrationdynamics.com](http://www.calibrationdynamics.com)

## Introduction

Calibration Dynamics Ltd supply one of the widest and most complete ranges of pressure controlling and calibration instruments in the UK.

Manufactured with quality, accuracy and innovative technology in mind, our CPC range of controllers provides the solution you have been searching for.

Delivering multiple advantages to the user, our pressure controllers range from simple, portable instruments to complete multi-channel, multi-range systems. The instruments we supply have the power to grow with your application and with features such as unbeatable accuracy specifications and easily interchangeable reference transducers, Calibration Dynamics Ltd ensures ultimate user flexibility, compatibility and complete satisfaction.

We hold demonstration stocks of our pressure controller range - please feel free to contact us and arrange an on-site, no obligation product demonstration.

Give us a call today on: **01264 339 030** or email: [sales@calibrationdynamics.com](mailto:sales@calibrationdynamics.com) - A member of our team will be happy to help.



The CPC6000 offers a new standard in flexibility, offering up to 8 pressure ranges in one controller with easily interchangeable transducers.

## Custom Systems

Calibration Dynamics Ltd do not only supply high quality, out of the box instruments to industry, we also have the capability and expertise to build complete custom systems that will merge seamlessly into any test calibration systems you may already have.

Our turn-key expertise can offer you features such as faster scan rates, higher accuracy specifications and even customised/enhanced software thanks to the help of our in-house development team.

At Calibration Dynamics Ltd, we are totally committed to providing our customers with the solution they are looking for, working to specific budget and time ranges and providing unbeatable after-sales support.

Contact us today and see for yourself how Calibration Dynamics Ltd can help you!



## CPC2090 - Portable Low-Pressure Calibrator

The CPC2090 is specifically designed for calibration of instruments with very low gauge/differential pressures. Equipped with integrated pressure generation and fine adjustment, the CPC2090 is well suited for calibration and measurement out in the field or in the laboratory.



### Notable Features

- Sensor Suited to Dry, Clean and Non-Aggressive Gases
- Measurement Range can be Changed by Factor 1/5
- Variable Instrument Response Time
- Designed for HVAC, Filtering, Dedusting, Clean Room and Medical Technology

|                     |           |   |        |          |
|---------------------|-----------|---|--------|----------|
| Measuring Ranges    | mbar      | 10/2  | 100/20 | 1000/200 |
| Overpressure Safety | mbar      | 100   | 1000   | 2000     |
| Accuracy            | % of Span | ≤ 0.2% (limit point calibration) ± 1 digit  |        |          |
| Pressure Type       |           | Gauge Pressure and/or Differential Pressure |        |          |

## CPC2000 - Portable Low-Pressure Controller

The CPC2000 is a compact, yet powerful low-pressure controller. Equipped with internal pressure generation and pressure reference, providing both positive and negative pressure in ranges up to 1000mbar.



### Notable Features

- Automatic Zero-Point Adjustment
- Test Mode to Ensure No Leaks
- Pressure Step Selection
- RS-232 Interface

|                     |      |   |      |      |      |
|---------------------|------|---|------|------|------|
| Measuring Ranges    | mbar | 1   | 10   | 100  | 1000 |
| Overpressure Safety | mbar | 200   | 2000 | 6000 | 6000 |
| Accuracy            | %FS  | 0.25  | 0.1  | 0.1  | 0.1  |
| Pressure Type       |      | Gauge Pressure and/or Differential Pressure   |      |      |      |
| Units               |      | mbar, kPa, hPa, Pa, mmHg (0°C), mmH2O (4°C), inH2O (0°C)<br>inH2O (60°F), inHg (0°C), inHg (60°F) |      |      |      |

## CPC3000 - High Speed Pressure Controller

The CPC3000 is an accurate, high-speed pressure controller capable of covering gauge/absolute/bidirectional ranges up to 70bar. A Barometric reference can also be added to this instrument, making the CPC3000 suitable for a wide variety of applications.

### Notable Features

- IEEE-488.2, Ethernet and USB Interfaces
- Colour LCD Touch-Screen
- Control Stability: 0.004%FS
- Control Speed: <3secs



|                  |     |  |
|------------------|-----|--|
| Measuring Ranges | bar | -1 ..... 70 (depending on sensor)        |
| Accuracy         | %FS | < 0.025                                  |
| Pressure Types   |     | Absolute, Gauge or Bi-Directional Ranges |
| Units            |     | 33 Selectable, 2 Programmable            |

## CPC6000 - Precision Pressure Controller

The CPC6000 Automated Pressure Calibrator incorporates two independent pressure regulating channels. Each channel can house up to two transducers with up to two calibrated pressure ranges per transducer. This provides a capability of having up to eight pressure range in a single CPC6000.

### Notable Features

- 0.01% FS Accuracy Per Range
- Colour LCD Display with Touch-Screen
- RS-232, IEEE-488 and Ethernet Interface
- Transducer Modules Easy to Remove for Calibration/Serviceing



|                     |      |  |
|---------------------|------|--|
| Measuring Ranges    | bar  | -1 ..... 100 (depending on sensor)       |
| Channels/Instrument | pcs. | Up To 2 Separate Control Units           |
| Sensor/Channel      | pcs. | Up to 2                                  |
| Accuracy            | %FS  | < 0.01                                   |
| Pressure Type       |      | Absolute, Gauge or Bi-Directional Ranges |
| Units               |      | 38 Selectable, 2 Programmable            |

## CPC8000-L - High Precision Pressure Controller

The CPC8000L is designed to automate high pressure pneumatic calibrations up to 410bar. The unique design ensures quick and easy control elements and provides stability up to 0.002% of range.

### Notable Features

- Single and Dual Range Configurations Available
- Simple Control Attributes with Colour TFT Screen
- Proprietary Control Technology: Provides Fast and Stable Control Through Entire Pressure Range



|                  |     |   |
|------------------|-----|---|
| Measuring Ranges | bar | Low Pneumatic Pressure Ranges: 0 .... 0.025 up to < 1<br>Standard Pneumatic Pressure Ranges: 0 .... 1 up to 60<br>High Pneumatic Pressure Ranges: 0 .... > 60 up to 400 |
| Accuracy         | %FS | 0.01  |
| Pressure Type    |     | Absolute or Gauge Ranges  |
| Units            |     | psi, inHg@0°C, cmHg@0°C, mmHg@0°C, inH2O@4°C, 20°C, bar, mbar, cmH2O@4°C and 20°C, hPa, kPa, Pa, MPa, kg/cm2, and 3 user-defined units.                                 |

## CPC8000-X - High Precision Pressure Controller

The CPC8000-X has the same concept design as the L Version, however this instrument is aimed at applications where high accuracy is paramount. Accuracy up to 0.008% is achieved through utilising a high quality quartz pressure sensor.

### Notable Features

- Single and Dual Range Configurations Available
- Integrated Data Logger (Stores up to 199 Values)
- Proprietary Control Technology: Provides Fast and Stable Control Through Entire Pressure Range



|                  |     |   |
|------------------|-----|---|
| Measuring Ranges | bar | Low Pneumatic Pressure Ranges: 0 .... 0.1<br>Standard Pneumatic Pressure Ranges: 0 .... 1 up to 60<br>High Pneumatic Pressure Ranges: 0 .... > 60 up to 400 |
| Accuracy         | %FS | 0.008   |
| Pressure Type    |     | Absolute or Gauge Ranges  |
| Units            |     | psi, inHg@0°C, cmHg@0°C, mmHg@0°C, inH2O@4°C, 20°C, bar, mbar, cmH2O@4°C and 20°C, hPa, kPa, Pa, MPa, kg/cm2, and 3 user-defined units.                     |

## 8100 - Quartz Pressure Calibrator

The 8100 incorporates up to 2 interchangeable quartz resonator transducers, providing proven high accuracy and excellent long term stability. Custom pressure ranges can be specified to maximise calibration accuracy and increasing the test uncertainty ratio.



### Notable Features

- Gauge Emulation with Barometric Pressure Display (Optional)
- Multiple Ranges per Transducer
- Easy to use Colour Touch-Screen
- "Quick Change" Transducers

|                  |       |  |
|------------------|-------|--|
| Measuring Ranges | psia  | Full Scale Ranges from 15 up to 1500   |
| Accuracy         | %FS/R | 0.007/0.003  |
| Pressure Types   |       | Absolute, Gauge or Bi-Directional  |
| Units            |       | psi, inHg@0C, inH2O@4C, inH2O@20C, Bar, mBar, mmHg@0C, cmHg@0C, Pascal, hPa, kPa, Mpa, cmH2O@4C, cmH2O@20C, 2 Programmable |

## CPC8000-H - Hydraulic High-Pressure Controller

With its high accuracy specification, the CPC8000-H hydraulic highpressure controller is particularly suitable as a factory / work's standard for the automatic testing and / or calibration of high-pressure measuring instruments of any kind. The instrument is manufactured for 19" rack mounting, but it is also available as a complete unit within its own housing.

### Notable Features

- Pressure Medium: Hydraulic Oil or Water
- Control Stability: 0.008% FS
- RS-232 and IEEE-488.2 interface.
- TFT colour display with HD technology, allows up to 4 windows to be viewed at any one time,



|                  |     |   |     |      |
|------------------|-----|---|-----|------|
| Measuring Ranges | bar | 60  | 100 | 1600 |
| Accuracy         | %FS | 0.01  |     |      |
| Pressure Types   |     | Positive Overpressure                       |     |      |
| Units            |     | 17 Standard Pressure Inputs, 3 Programmable |     |      |



[www.calibrationdynamics.com](http://www.calibrationdynamics.com)



**- Calibration Dynamics Ltd -**

**Providers of Test, High Accuracy Measurement and Calibration Instruments to industry.**

**Partner with us Today and See the Benefit**

Calibration Dynamics Limited  
7 Regents Court South Way  
Walworth Industrial Estate  
Andover Hampshire SP105NX UK

Tel: +44 (0) 1264 339030 Fax: +44 (0) 1264 339040

E-mail: [sales@calibrationdynamics.com](mailto:sales@calibrationdynamics.com)

[www.calibrationdynamics.com](http://www.calibrationdynamics.com)

Registered at Companies House in England No: 05406638 VAT Registration No: 854 3716 13

Calibration Dynamics Ltd are the UK's  
Exclusive Distributors of:



**Scanivalve Corp.**



and Distributor of:



**Calibration Line**

[www.calibrationdynamics.com](http://www.calibrationdynamics.com)