

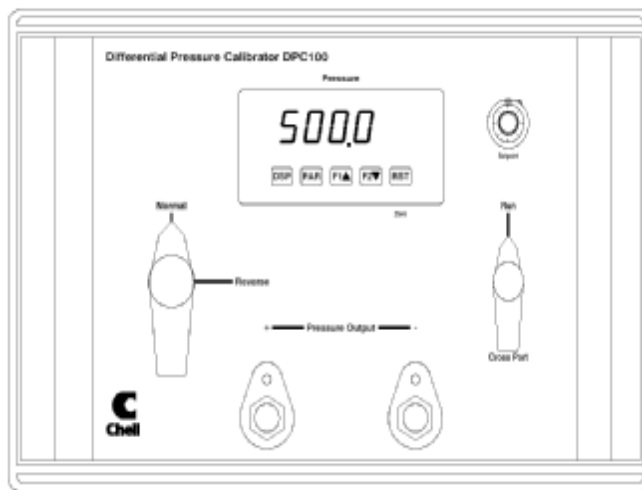
DPC-100

Low Range

Differential Pressure Controller / Calibrator

Instruments

- **Precise d.p. control**
- **Normal/Reverse pressure applied to device under test**
- **Percent of reading measurement precision**
- **Over pressure protection**
- **UKAS (ISO17025) certified.**
- **Analogue output of test**



Description

The DPC100 is designed to generate differential pressures between its two output ports to allow calibration of differential pressure gauges, transducers and transmitters. Test gas, calibration pressure range, and measurement precision can be specified at the time of purchase.

Calibration pressures are set using a potentiometer, and displayed on a linearising LCD display. The operator can select Normal or Reverse operation to apply positive or negative pressures, and also switch between Run and Cross-Port to allow zeroing of the calibrator and device under test.

Exceptionally stable applied pressure is achieved by controlling the flow of gas across an orifice, and applying the resultant differential pressure. This method permits an impressive 100:1 control range and, by limiting flow rate, prevents inadvertent overpressure of the internal reference transducer or device under test.

Specifications	
Mechanical	
Package	Free standing desktop case
Dimensions	H206 x W314 x D422mm
Mounting	Free standing (bench top)
Weight	8-11 Kg
Power Supply	
Line Voltage	240V AC or 120V AC (factory set)
Line Frequency	50-60Hz
Consumption	Less than 50VA
Protection	1.6A anti-surge fuse
Operating Conditions	
Operating Temperature	+5 to +40 DegC
Storage Temperature	-20 to +70 DegC
Relative Humidity	95% max at 50DegC (non condensing)
Warm-up Time	60 minutes (assumes instrument at ambient)
Measurement and Ports	
Pressure Ranges	+/- 100Pa, +/- 1KPa, +/- 10KPa or 100KPa
Pressure Control Range	1 to 100% of full-scale
Inlet Fitting	Swagelok (TM) (alternatives available)
Outlet Fitting	4mm hose raffle (alternatives available)
Measurement Precision	+/-0.5% F.S., 0.5% Rdg, 15% Rdg or 0.05% Rdg (+/- temperature coefficients)
Measurement Resolution	0.01% of F.S. or 0.001% of F.S.



Chell Instruments Ltd
 Folgate House
 Folgate Road
 North Walsham
 Norfolk NR28 0AJ
 England

Tel.: +44 (0)1692 500555
 Fax: +44 (0)1692 500088

E-mail : sales@chell.co.uk

Web site : www.chell.co.uk