



Industrial Range

MODEL

P540



## Pneumatic Comparator for Pressure Calibration

- ▶ Ranges from -1 to 10 bar to -1 to 100 bar
- ▶ Supplied with Software
- ▶ Simultaneous display of all measurement data
- ▶ User friendly operation via Menu System

- ▶ Accuracy to 0.025%
- ▶ Power, Read and Store data from test instrument
- ▶ Rechargeable batteries supplied with charger
- ▶ Ergonomic layout ideal for workshop use



DH·Budenberg

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# P540

## Pneumatic Comparator for Pressure Calibration

Standard Accuracy to 0.025%.  
Available with UKAS  
Pressure Calibration Certificate.

### RANGES

-1 to 10 bar

-1 to 20 bar -1 to 100 bar

The 540 family of Calibrators is a powerful range of instruments providing optimum features for industrial users whilst being user friendly and rugged enough for industrial environments. The instruments include high accuracy measurement of pressure along with means of raising and adjusting pressure. In addition to measuring pressure, the units have a range of electrical inputs to enable the calibration of a variety of instruments.

The P540 requires a gas supply slightly in excess of the maximum test pressure. This should be clean and dry, eg: Nitrogen cylinders. Pressure is controlled by means of precision "soft-seat" inlet and vent valves. Fine adjustment is achieved using the in-built screwpress.

## OPERATING FEATURES

- Pressure Units: There are 10 pre-programmed units including bar, mbar, kPa, MPa, PSI, mmHg, inHg, kg/cm<sup>2</sup>, mH<sub>2</sub>O, plus a user defined unit.
- Resolution: The user can select resolution between 4 and 6 significant digits.
- Damping: Variable average time, between 280 msec and 5 seconds.
- Data Storage: 128k memory which can be used for data logging or manual storage.
- Manual Storage: Includes full alphanumeric test instrument and user identification, plus the ability to log instrument data via the keypad.
- Data Logging: The unit can be used as a data logger with reading intervals between 10 seconds and several hours.
- Leak Testing: The unit can be configured to perform leak tests.
- Switch Test: Unit can be used for switch testing, recording the open and closing pressures for a pressure switch.

Note: Due to DH-Budenberg's policy of continuous improvements, specifications are subject to change without notice.

## ACCURACY

- Pressure Measurement: 0.025% of full scale, includes linearity, hysteresis, repeatability and temperature compensation up to 100 bar.
- Electrical Input: Measurement of millivolts (0-100) & volts, ranges 0-10 and 0-30, accuracy 0.02% scale range.  
Measurement of current 0-25 milliamps, accuracy 0.03% scale range.  
Temperature: (with an external Pt100 DIN), accuracy 0.2°C across range -50°C to 100°C.
- Electrical Output: Two power supplies are available for transducers / transmitters only.  
24 volts  $\pm$  10% (maximum 25 milliamps) for transmitters.  
10 volts  $\pm$  1% (maximum 10 milliamps) for transducers.

## SOFTWARE

Units supplied with software which allows upload of all test data and the production of test records, certificates etc. Software can also be used to remotely control the unit to allow remote instrument setup and reading. The software runs under Windows and is a user-friendly flexible package, meeting the needs of the majority of users. In addition, data can be exported from the package for use in a spreadsheet, such as Excel, thus allowing the user full customisation facilities. Connection to a PC via RS232 Port. A connecting lead is supplied.

## ACCESSORIES

There are many accessories which can be supplied for use with Pressure Calibrators. These include liquid/liquid seals and dual gauge stands. DH-Budenberg has extensive experience in the use of Pressure Calibrators and can supply accessories for many applications. A separate catalogue sheet of accessories is available.

## SPARES, REPAIR & RECERTIFICATION

- Comprehensive service and calibration capability of both DH-Budenberg and non DH-Budenberg test equipment.\*
- Dead-weight Testers (working service or full overhaul).\*
- Gauges (all types, all manufacturers).\*
- Portable Calibrators (all manufacturers).\*
- Comparators.\*
- Units available with UKAS Pressure calibration Certificate as an option.
- Certification traceable to National/International Standards as standard.
- Rapid turn-around times and hire items available as a temporary replacement for strategically important plant.

## PACKING DETAILS

1 carton containing complete Tester: 51 x 49 x 30cm. 0.075m<sup>3</sup> Nett 25kg, Gross 27kg.

\* Not covered by our current BS EN ISO9001



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