



Industrial Range

MODEL

PPS42



- ▶ Pneumatic integral pressure generation vacuum to 40bar
- ▶ Hydraulic integral pressure generation to 700bar
- ▶ Up to two user selectable integral sensors

Portable Pressure Calibrator

- ▶ Easy to use menu with soft-key operation
- ▶ Accuracy to 0.025% for up to 12 months
- ▶ Windows-based user software as standard



DH-Budenberg
The Pressure Reference

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PPS42

Portable Pressure Calibrator

THE PPS42 FAMILY

The PPS42 family is the latest offering from DH-Budenberg's range of portable electronic pressure calibrators. The PPS42 includes pressure calibration, leak testing, pressure and data logging, together with the option of two integral sensors allowing for calibration in both pneumatic and hydraulic mediums using just one calibrator.

Complete with an IP65 case, re-chargeable batteries and Windows based software as standard, the PPS42 is a truly portable all-round mini calibration laboratory.



PHYSICAL SPECIFICATIONS

Rechargeable battery operation, supplied with battery charger. Typical operation of battery 10 hours.

Large (60mm x 44mm) graphic LCD with backlight.

5kg, 400mm x 250mm x 190mm ABS enclosure. Sealing IP65.

Operating temperature 0 to 40°C, Humidity 90% non condensing.

SPECIFICATION

Pressure Range (bar)	Media	Accuracy* % fsd	Resolution mbar
Vac** to 2.5	Pneumatic	0.025	0.01
Vac** to 7	Pneumatic	0.025	0.01
Vac** to 10	Pneumatic	0.025	0.1
Vac** to 20	Pneumatic	0.025	0.1
Vac** to 40	Pneumatic	0.025	0.1
0 to 100	Hydraulic	0.025	1
0 to 250	Hydraulic	0.025	1
0 to 400	Hydraulic	0.025	1
0 to 700	Hydraulic	0.05	1

* Accuracy includes, Linearity, Hysteresis, Repeatability and temperature compensation. ** Accuracy on vacuum part of the range is 0.005 bar

ELECTRICAL OUTPUTS

Output	Accuracy	Limits	Notes
24V	+/-10%	25mA max	Transmitter Supply only
10V	+/-1%	10mA max	Transducer Supply only

PPS42 SERIES PORTABLE PRESSURE CALIBRATOR

OPERATING FEATURES

TWO SELECTABLE SENSORS. The PPS42 allows the user the option of selecting either one or two integral pressure ranges at the time of purchase. This flexibility is enhanced in that one range can be hydraulic, whilst the other can be pneumatic (alternatively, both may either be hydraulic or pneumatic). If both ranges use the same medium, pressure generation is also integral.

RESOLUTION. User selectable between 3 and 6 digits

DAMPING. User selectable up to 5 seconds.

PRESSURE UNITS. 11 Pre-programmed units, plus one user-defined unit available.

INTERNAL MEMORY. 128kB.

PRESSURE CALIBRATION. Including full alphanumeric test, instrument and user i.d., with full time and date stamping as standard.

PRESSURE GENERATION. Hydraulic pressure generation available in 3 ranges for improved fine control, 200/400/700bar.

DATA LOGGING. The PPS42 may be used as an automatic data-logger for test running up to 100 hours.

SOFTWARE. Windows based automatic calibration software supplied as standard.

PEAK. Integral peak-hold facility.

HOLD. Integral 'freeze-frame' facility.

TARE. Integral tare facility for pressure.

LEAK. The leak test function calculates leak rates over a user defined period, and records the pressure change.

BACKLIGHT. Integral user-selectable backlight.

For further information on Accessories, Repairs & Recertification contact DH-Budenberg and ask for a Data sheet.

PGS Pump Series

Handheld pressure generation systems



The Eurotron PGS pump series are a remarkable new range of hand pump for generating vacuum, gas and hydraulic pressure from a few mbar up to 700 bar. Those pump are the ideal tool for applying test pressure to sensors, gauges, pressure switches and any pressure device. They are low cost solution for field and workshop and are supplied with the wide range of Eurotron digital pressure indicator or as OEM application. These pumps

- Calibrate pressure device
- 3 separate models
- Range from Vacuum to 700 bar
- Extended kit solutions to suits different needs

PGS 3 LOW PRESSURE TEST PUMP

PGS 3 pressure pneumatic hand pump is fully portable, easy to use and generate pneumatic pressure up to 3 bar. When used together with a pressure indicators, it's an ideal tool for test & calibration of pressure transmitters, pressure switches, pressure gauges and general pressure devices.

PGS 40 PNEUMATIC TEST PUMP

PGS-40 pressure pneumatic hand pump is fully portable, easy to use and generate pneumatic pressure up to 40 bar, when used together with pressure indicators. It's an ideal tool for test & calibration of pressure transmitters, pressure switches, pressure gauges and general pressure devices.

PGS 700 HYDRAULIC TEST PUMP

PGS 700 hydraulic pressure hand pump is fully portable, easy to use and generate pressure up to 700 bar, when used together with pressure indicators. It's an ideal tool for test & calibration of pressure transmitters, pressure switches, pressure gauges and general pressure devices.

FEATURES

	PGS-3	PGS-40	PGS-700
Pneumatic pressure capability	•	•	
Vacuum capability	•	•	
Hydraulic capability			•
Integral fine control for accurate set point	•	•	•
adjustable stroke for over pressure safety	•	•	•
Controlled pressure relief valve	•	•	•
Priming operation			•
Fluid compatible			•
Scissor action pump	•	•	•

SPECIFICATIONS

Parameter	PGS-3	PGS-40	PGS-700
Pressure Range	0-3 bar	0-40 bar	0-700 bar
Vacuum Range	0-90 %	0-96%	n/a
Pressure media	gas	gas	Liquid
Fine Adjustment	0.1mbar	1 mbar	10-100 mbar
Pressure connection	1/4" BSP (F)	1/4" BSP (F)	1/4 BSP(F)
Pressure connection	1/4" BSP (F)	3/8 BSP (F)	3/8 BSP (F)
Hose extension	2x 1mt	1x1mt	1x1mt
Weight	587 g	510 g	1.6 Kg
Dimensions (mm)	170 x 46	220 x 105 x 63	236 x 176 x 70

Specification are based on minimum volume.

PNEUMATIC TEST KITS

PGS 40-P-BSP

A complete kit includes PGS 40 pump, PGS 40-BSP adaptor, robust transit case with customised foam insert



PGS 40-AK-BSP

- PGS 40 pressure/vacuum pump
- PGS 40-BSP adaptor set
- G10 analogue gauge
- A set of seals
- Transit carrying case

Please specify G10 pressure range.

G10 Reference analogue gauge

- DN 63 mm
- Accuracy 1% FS
- Dual scale in bar and psi
- Range available:
 - 0 - 2 bar / 0 - 30 psi
 - 0 - 11 bar / 0 - 160 psi
 - 0 - 25 bar / 0 - 365 psi
 - 0 - 40 bar / 0 - 600 psi
 - 1/0 bar and -30/0 inHg



HYDRAULIC TEST KITS

PGS 700-H-BSP

A complete hydraulic kit includes PGS 700 pump, PGS BSP-700 adaptor, HTH-1000 hose, robust transit case with customised foam insert



PGS 700-AK-BSP

- PGS 700 pressure pump
- PGS 700-BSP adaptor set
- PGS 700-HK 1000 high pressure hose
- PGS-MANO analogue gauge
- A set of seals
- Transit carrying case

Please specify PGS-MANO pressure range.

G10 Reference analogue gauge

- DN 150 mm
- Accuracy 0.5% FS
- Range available:
 - 0 - 150 bar / 0 - 2100 psi
 - 0 - 350 bar / 0 - 5000 psi
 - 0 - 400 bar / 0 - 6000 psi
 - 0 - 700 bar / 0 - 10,000 psi



Pressure test pumps

PGS-3 OEM comes with two of 1 meter test hoses with 1/4 BSP (F) connection

PGS-40 OEM comes with 1 meter test hose with 1/4 BSP female connection

PGS-700 OEM comes with 3/8 BSP blank off connection to suit HTH-1000 pressure hose

Accessories

PGS-BSP-3/40/700

A set of stainless steel BSP test point adaptor:

- 1/4" BSP male to 1/8", 3/8" and 1/2" BSP female

HTH-1000

1 m length of high pressure self-sealing flexible hose rated to 1000 bar supplied with 1/4" BSP female adaptor

Ordering Information

PGS-3-OEM pump only

PGS-40-OEM pump only

PGS-700-OEM pump only

When ordering kits or accessories please state the code in bold type i.e PGS-700-AK-BSP. Gauge pressure range need to be specified