

INDUSTRY RANGE



The PPS40 family of portable calibrators delivers an optimum features package tailored for industrial users. This powerful range of instruments is both user friendly in operation and rugged enough for the harshest of industrial environments.

The robust enclosure offers IP65 protection and excellent ergonomics.

The calibrator provides temperature corrected pressure measurement to an accuracy of 0.025 % over the operating range of 0 to 40°C. It also provides for the supply and measurement of transmitter or transducer output, temperature measurement and data storage.

MODEL **PPS40** Portable Multifunction Pressure Calibrator

- Built in pumps with fine control for Pressure/Vacuum
- Robust IP65 ABS enclosure
- Easy to use menu system
- Ranges vac to 400 bar
- 0.025% Accuracy across range 0 - 40°C
- Ergonomic layout ideal for field use



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OPERATING FEATURES

RESOLUTION. User selectable between 4 and 6 significant digits. Eg: 6 digits on a 20 bar unit gives 20.0000 display, resolution 0.1mbar.

DAMPING. Variable averaging time, between 280msecs and 5 seconds.

PRESSURE UNITS. Pre programmed units of: bar, mbar, kPa, MPa, psi, mmHg, inHg, kg/cm², mH₂O, inH₂O, plus a user defined pressure unit which can be configured into the unit by the user. (note: water units assume water at 20c).

DATA STORAGE. 128K memory which can be used for data logging, or manual data storage.

MANUAL STORAGE. including full alphanumeric test, instrument and user identification, plus the ability to log measurement data, or pressure

plus an analogue instrument reading, full date and time stamping.

DATA LOGGING. To store readings from the PPS40, full test identification, plus start time, duration (min 1 minute max 99 hours 59 minutes) and reading interval (smallest interval 10 seconds, max interval 99 minutes 59 seconds).

SOFTWARE. Unit is supplied with software to control the instrument and remotely read or set, to conduct tests and to download test data to a computer for analysis and certificate/test record production.

PEAK. The unit has a peak function which records the peak values and presents them to the user simultaneously with the current pressure and instrument reading.

HOLD. There is a hold function which freezes the display at the current values.

TARE. The tare (zero) function is a soft key option and can be set to tare either pressure only or pressure and electrical readings.

LEAK. The leak test function calculates leak rates over a user defined period, and records the pressure change and the test temperature (with an external PT100 DIN).

SWITCH TEST. The unit will record opening and closing pressures for a pressure switch.

BACKLIGHT. With timed function for power saving, always on, or off or timed auto turn off.

SAVE SET UP FUNCTION. Allows users to configure the instrument for their requirements then take the settings as the start up default.

SPECIFICATION

Pressure Range bar	Media	Accuracy* % fsd	Resolution mbar**
vac - 10	Gas	0.025	0.1
vac - 20	Gas	0.025	0.1
0 to 100	Hydraulic	0.025	1
0 to 400	Hydraulic	0.025	1

* Accuracy includes, Linearity, Hysteresis, Repeatability and temperature compensation.

ELECTRICAL INPUTS

Input	Range	Accuracy	Resolution
Millivolts	0 - 100mV	0.01mV+0.01%URL	1 µV
Volts	0 - 10V	0.01mV+0.01%URL	50 µV
	0 - 30V	3.0mV+0.01%URL	1 mV
Current	0 - 25mA	5µA+0.01%URL	1 µA
PT100	-50/100°C	0.2°C	0.1°C
Switch			

ELECTRICAL OUTPUTS

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

PHYSICAL SPECIFICATIONS

Rechargeable battery operation, supplied with battery charger. Typical operation of battery 12 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.

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

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