

0.25% ACCURACY BENCHTOP PRESSURE STANDARD

Ω MONOGRAM™ SERIES

0-15 to 0-6000 psi



PCL41-060, shown smaller than actual size.

PCL41 Series



- ✓ NIST Traceable
- ✓ Display Hold for Testing Pressure Switches
- ✓ Adjustable Resolution
- ✓ Min/Max Standard
- ✓ Adjustable Filtering
- ✓ Front-Panel Tare

The PCL41 Series pressure standard incorporates features found in high-end standards into an affordable, portable benchtop unit. The microprocessor-based controller allows the user to adjust display filtering and resolution for the particular application. The front-panel tare allows zeroing of the display with the push of a button.

With the display hold feature, the user can test pressure switches. An external connection is completed when the pressure switch under test changes state. The switch freezes the display, which shows the true actuating pressure.

Other available options include scalable analog outputs, RS232 or RS485 communications, and mechanical relays. With the right combination of options, the PCL41 can become a sophisticated data system.

SPECIFICATIONS

Accuracy: 0.25% full scale (linearity, hysteresis and repeatability)
Operating Temp: 0 to 50°C (32 to 122°F)
Media Temp: -20 to 80°C (-4 to 176°F)
Temp Effects: 0.004% full scale/°C

Proof Pressure: 150% full scale

Output: 4 open collectors 150 mA sink @ 1 Vdc maximum; optional 2 SPDT relays 7 A @ 230 Vac; deadband fully adjustable

Warm-Up to Rated Accuracy: 5 minimum

A/D Conversion: Dual slope technique

Display: 6-digit, 14-segment LED, red or green; 14.2 mm (0.56") high; indicator lights for alarms and status modes

RS232 Communications (Option "-S2"):

300/1200/2400/4800/9600/19.2K baud; RJ11 4-wire connection; complete program setup and message display capability; programmable to transmit current display, alarm status, minimum/maximum, actual measured input value (not scaled) and status

RS485 Communications (Option "-S4"):

300/1200/2400/4800/9600/19.2K baud; RJ11 6-wire connection; addressable from 0 to 199

Analog Output

(Option "-A"): Selectable 0 to 5 Vdc, 1 to 5 Vdc, 0 to 10 Vdc, 0 to 20 mA, to 20 mA; voltages @ 20 mA, current @ 12 Vdc

Read Rate: 3/s (adjustable to 13/s)

Power: 120 Vac @ 10 W

Dimensions:

109 H x 259 W x 254 mm D (4.3 x 10.2 x 10")

Weight: 3.6 kg (7.9 lb)

0.25% ACCURACY BENCH STANDARD RANGES FROM 15 to 6000 psi



PCL41-060, shown smaller than actual size.

Thermocouple and RTD probes sold separately. A complete selection of DP41 precision indicators available. Visit us online



DP41-T and DP41-RTD, shown smaller than actual size.

A

PRESSURE INSTRUMENTS

To Order

RANGE	MODEL NO.	RESOLUTION
0 to 15 psig	PCL41-015	0.001 psig
0 to 30 psig	PCL41-030	0.001 psig
0 to 60 psig	PCL41-060	0.01 psig
0 to 100 psig	PCL41-100	0.01 psig
0 to 300 psig	PCL41-300	0.01 psig
0 to 600 psig	PCL41-600	0.1 psig
0 to 1000 psig	PCL41-1K	0.1 psig
0 to 3000 psig	PCL41-3K	0.1 psig
0 to 6000 psig	PCL41-6K	1 psig

Comes complete with power cord, operator's manual and NIST calibration certificate.

Ordering Examples: PCL41-100-R, benchtop pressure standard, with 0 to 100 psig range, optional dual 7 A SPDT relays, and PS-4G, pressure snubber for gas applications.

PCL41-300-S2, benchtop pressure standard with 0 to 300 psig range, optional RS232 serial output, DP40-95C2, 9-pin serial connector (RJ11 to DB9) and PS-4E, pressure snubber for water.

OPTIONS (NOT FIELD INSTALLABLE)

ORDER SUFFIX	DESCRIPTION
-R	Dual 7 A SPDT mechanical relay
-A	Scalable analog output
-S2	RS232 serial output (requires connector below)
-S4	RS485 serial output (requires connector below)

ACCESSORIES

MODEL NO.	DESCRIPTION
PS-4D	Pressure snubber for motor oil
PS-4E	Pressure snubber for water
PS-4G	Pressure snubber for gas
DP40-95C2	9-pin serial connector for RS232
DP40-95C4	9-pin serial connector for RS485
DP40-25SC2	25-pin serial connector for RS232
DP40-25SC4	25-pin serial connector for RS485