

# 0.25% ACCURACY BENCHTOP PRESSURE STANDARD

OMEGA MONOGRAM SERIES



PCL41-060, \$795, shown smaller than actual size.

## PCL41 Series 0-15 to 0-6000 psi

All Models  
**\$795**



- ✓ 5-Year Warranty
- ✓ 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% FS (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% FS/°C  
**Proof Pressure:** 150% FS  
**Output:** 4 open collectors 150 mA sink @ 1 Vdc max; optional 2 SPDT relays 7 A @ 230 Vac; deadband fully adjustable

**Warm-Up to Rated Accuracy:** 5 min

**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, min/max, 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, \$795, shown smaller than actual size.

**MOST POPULAR MODELS HIGHLIGHTED!**

## To Order (Specify Model Number)

RANGE	MODEL NO.	PRICE	RESOLUTION
0 to 15 psig	PCL41-015	\$795	0.001
0 to 30 psig	PCL41-030	795	0.001
0 to 60 psig	PCL41-060	795	0.01
0 to 100 psig	PCL41-100	795	0.01
0 to 300 psig	PCL41-300	795	0.01
0 to 600 psig	PCL41-600	795	0.1
0 to 1000 psig	PCL41-1K	795	0.1
0 to 3000 psig	PCL41-3K	795	0.1
0 to 6000 psig	PCL41-6K	795	1.0

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

**Ordering Example:** PCL41-030-R and PS-4G, benchtop pressure standard, with 0 to 30 psig range, optional dual 7 A SPDT relay and pressure snubber for gas applications, \$795 + 75 + 10 = **\$880**.

## OPTIONS (NOT FIELD INSTALLABLE)

SUFFIX	PRICE	DESCRIPTION
-R	\$75	Dual 7 A SPDT mechanical relay
-A	110	Scalable analog output
-S2	110	RS232 serial output (requires connector below)
-S4	110	RS485 serial output (requires connector below)



## ACCESSORIES

MODEL NO.	PRICE	DESCRIPTION
PS-4D	\$10	Pressure snubber for motor oil
PS-4E	10	Pressure snubber for water
PS-4G	10	Pressure snubber for gas
DP40-9SC2	30	9-pin serial connector for RS232
DP40-9SC4	30	9-pin serial connector for RS485
DP40-25SC2	30	25-pin serial connector for RS232
DP40-25SC4	30	25-pin serial connector for RS485
OP-6	225	Reference Book: Fundamentals of Temperature, Pressure, and Air Flow Measurement



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