

HIGH PRECISION PRESSURE CALIBRATOR

MODEL : PCAL 1300/2



Carrying case



PVP - 01



PVP - 02



Introduction

Exact pressure measurement and monitoring are must in applications crucial to operational safety of machinery and industrial installations.

Regular inspection of the pressure gauges / sensor / transmitters / indicators used in these applications is absolutely essential for economic and technical - safety reasons and is already prescribed as obligatory in many sectors.

Applications

- ☐ Energy - Production and energy -Distribution sectors
- ☐ Glass, Ceramic, Semi conductor industries
- ☐ Steel material processing industries
- ☐ Calibrators laboratories etc.,.

Descriptions

“SANSEL” PCAL 1300 / 2 is a Micro controller based precision pressure calibrators generates true reference pressure. Connect the gauge to be calibrated in the calibrator. Set the pressure using respective pump when stabilization.

Technical Specifications

Features	Values
Model	PCAL 1300 / 2 bar
Range (bar)	- 0.9 to 2 bar
Pressure media	Air
Pressure pump	PVP - 01, 02
Display	128 x 64 COG Graphic LCD with White LED Back light
Instrument port (at pump)	3/8" BSP Female
Test Port (at pump)	1/4" BSP Female
Instrument Port	3/8" BSP Male
Pump dimension in mm (Approx.)	PVP – 01 (230 x 220 x 70 mm (H x W x D)), PVP – 02 (230 x 140 x 65 mm (L x B x H))
Resolution (bar)	6 digit user selectable
Instrument Port	1/4 BSP Male x 10 mm long
Instrument dimension	100 x 100 x 55 (W x H x D) mm
Instrument Weight	400gms (Approx.)
Stability time	1 to 2 mins
Accuracy	± 0.05% FS
Pressure units * (selectable)	bar, mbar, MPa, kPa, Pa, PSI, kg/cm ² , inHg, cmHg, mmHg, mH ₂ O, ftH ₂ O, inH ₂ O, cmH ₂ O, mmH ₂ O
Pressure Zero	One touch zero provided on front key
Pressure Peak	Maximum & minimum with user reset option
Pressure overflow	FS X 2 (Max.)
Pressure burst	FS X 3 (Max.)
Temp.Measure	RTD -PT 100 (2,3,4, wire selectable)
Temp. Range	-199.999 to 850.000
mA Measure	0-24 mA (scalable)
Display scale	-99999 to 99999 counts (for mA measure input)
Switch test	Provided
Display Hold	One touch hold provided on front key
Power Supply	9V DC ±5% / 600 mAh Rechargeable battery with battery life 20 hours without backlight (or) 9V DC adapter / 230V AC supply operated
Pump Weight (gms) (Approx.)	PVP – 01 (1.1 Kg), PVP – 02 (750 Gms)

Pc Interface (optional)	RS-485(2 wire) (Note : connect to PC using USB to RS 485 convertor supplied along with PC software)
PC Software (optional)	Windows based semi automatic calibration software (optional)

Note: Above Specification change without notice *factory selected units are display which supports to pressure range

Pneumatic Low Power Hand Pump – Technical Specifications

Model	PVP - 01	PVP - 02
Range	-0.9 bar Vacuum to 2 bar Pressure	-0.9 bar Vacuum to 10 / 25 / 35 / 40 bar Pressure
Medium	Air	Air
Sensitivity / Resolution	0.05 mbar / 0.5 mmWC	Upto 1 mbar
Gauge / Indicator Connection Port	3/8" (F) BSP	3/8" (F) BSP
Test Connection Port	1/4" (F) BSP	1/4" (F) BSP
Instrument Dimension	230 x 220 x 70 mm (H x W x D)	230 x 140 x 65 mm (L x B x H)
Instrument Weight (approx.)	1.1 Kg.	750 gms.

Instrument - Standard Delivery

1. 9V DC Battery charger
2. Test certificate

Instrument - Optional

1. Pressure / Vacuum pump
2. Set of adopters
3. Temperature sensors
4. Carrying case
5. NABL Calibration certificate

Pump - Standard Delivery

1. Basic Pump
2. Nylon Hose (Length : 1 Meter)
3. Set of Seals
4. Instruction manual
5. Test certificate
6. Standard adopter set – 8 pieces

1/4" BSP(F) X 1/4" BSP (M)	}	BSP
1/8" BSP(F) X 1/4" BSP (M)		
1/2" BSP(F) X 1/4" BSP (M)		
3/8" BSP(F) X 1/4" BSP (M)		
1/8" NPT(F) X 1/4" BSP (M)	}	NPT
1/4" NPT(F) X 1/4" BSP (M)		
1/2" NPT(F) X 1/4" BSP (M)		
3/8" NPT(F) X 1/4" BSP (M)		

Pump - Optional

1. Pp Carry case
2. Master Pressure Gauge – PCAL 1300 Series, manufactured by Sansel

SANSEL INSTRUMENTS AND CONTROLS SANSEL CALIBRATION LABORATORIES

ISO/IEC 17025 Accredited Calibration Laboratory by NABL CC - 2879

(Thermal, Mechanical, Electro-Technical, Dimension Parameters)

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