

HIGH PRECISION PRESSURE CALIBRATOR

MODEL : PCAL 1300 / 1000



CT - 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 / 1000 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 occurs, simply read the pressure and Re-calibrate the gauges / sensor / transmitters / indicators.

Technical Specifications

Features	Values
Model	Pcal 1300 / 1000 bar
Range (bar)	0 to 1000 bar
Pressure media	Oil & Water
Pressure pump	CT - 02
Display	128 x 64 COG Graphic LCD with White LED Back light
Resolution (bar)	6 digit user selectable
Instrument Port	½” 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
PSI	17400 Psi
Over pressure	120%
Pressure units * (selectable)	bar, mbar, MPa, kPa, Pa, PSI, kg/cm², 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 (Approx.)	14 kg.
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

Comparison Tester – Hydraulic - Technical Specifications

Model	CT - 02
Range	0 to 700 / 1000 bar (CT-02 Series)
Type	Screw Pump
Pressure generation	Priming Pump for initial pressures & Screw RAM Pump for high pressures
Test Port Connection	M26 X 3 mm Pitch(M)
Medium	Oil (Optional: Water)
Dimensions	460 x 360 x 200 mm (L x D x H)
Weight	14 Kg (Approx).

Instrument - Standard Delivery

1. 9V DC Battery charger
2. Test certificate

Pump - Standard Delivery

1. Basic Pump
2. Hydraulic Fluid (500 ml)
3. Set of Seals
4. Distilled Water
5. Instruction manual
6. Test certificate
7. Set of Adaptors – SS
 - M26 (F) X ½" BSP(F) 2 Nos.
 - M26 (F) X ⅛" BSP(F)
 - M26 (F) X ¼" BSP(F)
 - M26 (F) X ⅜" BSP(F)
 - M26 (F) X ⅛" NPT(F)
 - M26 (F) X ¼" NPT(F)
 - M26 (F) X ½" NPT(F)
 - M26 (F) X ⅜" NPT(F)

BSP

NPT

Instrument - Optional

1. Hand Pressure Pump
2. Set of adaptors
3. Temperature sensors
4. Carrying case
5. NABL Calibration certificate

Pump - Optional

1. Master Pressure Gauge – PCAL 1300 Series, manufactured by Sansel
2. Right-Angled & Two Gauge Adaptors



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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