



Description

The 7191 is a hand operated pressure pump designed to generate either vacuum to -0.95 bar (-14 psi) or pressures to 4 bar (60 psi). A high-quality screw press is designed for fine pressure adjustment, with adjusting resolution up to 0.0001mbar (0.01 Pa). To reach the pressure stability as high as possible during the pressure calibration, an isothermal bellows chamber is designed for reducing the possible heat effects such as environmental temperature change.

The 7191 is designed without a non-returning valve meaning minimal maintenance is required. Two finger-tight connectors installed on the pump allow the user using fingers to connect and disconnect the reference gauge and devices under test quickly and easily without the need for PTFE tape or wrenches.

The 7191 is ideal for applications requiring accurate low pressure testing and calibration. It can be used in calibrating low pressure gauges, transmitters, or other pressure measuring instruments. To accompany the pump a wide range of digital pressure gauges are available. The TEG-CV4b covers the full range of the pump (-1 to 4 bar) with accuracies of either 0.2 %, 0.1 %, 0.05 %, or 0.02 % of full scale.

Specifications

Media	Air
Generated pressure range	0.95 bar vacuum to 4 bar pressure (14 psi vacuum to 60 psi pressure)
Pressure Resolution	0.0001mbar / 0.01Pa
Material	Ram/adapters: SST; Body: SST/aluminum; Seals: Buna-N
Connection	Finger-tight connectors for both test gauge and reference gauge
Pressure connections	2 x 1/4 " BSP. Optional 1/4 " NPT (7191-NPT).
Height	145 mm
Base	275 mm x 260 mm
Weight	2.8 kg (6.2 lbs)
Options	Digital gauges, carry case (7191-CC), maintenance kit (7191-MK).

Due to continuous development Time Electronics reserves the right to change specifications without prior notice.

Features

- Vacuum to 4 bar pressure
- Double output manifold
- Adjustment control: 0.0001 mbar (0.01 Pa)
- High resolution and stability
- Smooth pressure generation
- Pneumatic
- Compact design ideal for field or lab use
- Suitable for use with calibrators & gauges



Ordering information

7191	Benchtop Pressure Calibration Pump (vacuum to 4 bar pressure)
TEG-CV4b.....	Digital Pressure Gauge (- 1 to 4 bar, 0.2/0.1/0.05/0.02 % accuracies available)