



Description

A benchtop pneumatic pressure pump that is a dual pressure source with the ability to achieve high pressures with minimal effort. It provides both 95 % vacuum and pressure to 140 bar (2000 psi). The long pump lever with ergonomic grip enables smooth generation to high output pressures and a high-quality screw press is incorporated to allow fine adjustment settings within 0.1 mbar (10 Pa).

The 7194 can also be used to generate low pressures (600 mbar) without pumping. An isolation valve shuts-off the pump from the system under pressure to keep the output stable under calibration. A built-in gas-liquid trap protects the pump from moisture and dirt. Any residual liquid in the pump is vented out via the vent port which incorporates a hose connection to allow collection of liquids. For calibration applications the double output manifold provides finger-tight connections for a reference gauge and device under test.

The 7194 is comfortable and simple operation, with features that make it ideal for calibrating pressure transducers, precision pressure gauges, and other pressure instruments. It is particularly suitable for applications where high pressure is required without the use of hydraulic pumps or nitrogen cylinders. It is also ideal for use as a benchtop gauge comparator.

To accompany the pump Time Electronics offer a range of digital pressure gauges, including the TEG-G140b model that covers the range of the pump with four accuracies to select from. Also available is the 7078 auto-ranging digital pressure gauge with vacuum to 200 bar range and 0.1 % accuracy of setting.

Specifications

Media	Air.
Generated pressure range	0.95 bar vacuum to 140 bar pressure. (14 psi vacuum to 2000 psi pressure).
Over pressure range	To 160 bar (2320psi).
Pressure resolution	0.1 mbar / 10 Pa.
Material	Ram/adapters: 316 SS. Body: Steel/aluminum. Seals: Buna-N.
Pressure connections	2 x 1/4 " BSP. Optional 1/4 " NPT (7194-NPT).
Weight	6.8 kg (15 lbs).
Dimensions	540 x 270 x 130 mm.
Options	Digital gauges, carry case (7194-CC), maintenance kit (7194-MK).

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

Features

- 0.95 bar vacuum to 140 bar (2000 psi) pressure
- Dual pressure source (double output manifold)
- High pressure resolution (0.1 mbar)
- High pressure stability
- Easy to use pressure lever with handle
- Built-in isolation valve for increased protection
- Free from humidity and dirt
- Ideal for use with calibrators and gauges



Ordering information

7194	Benchtop Pneumatic Pressure Calibration Pump (0.95 bar vacuum to 140 bar)
7078	Auto-ranging digital pressure gauge (Vacuum to 200 bar, 0.1 % accuracy of setting)
TEG-G140b	Digital pressure gauge (0 to 140 bar, 0.2, 0.1, 0.05 or 0.02 % FS accuracy available)