



### 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 200 bar (3000 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 7194A 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 7194A 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 7078 vacuum to 200 bar gauge with 0.1 % accuracy of setting.

### Specifications

|                                       |   |
|---------------------------------------|---|
| <b>Media</b> .....                    | Air.  |
| <b>Generated pressure range</b> ..... | 0.95 bar vacuum to 200 bar pressure.<br>(14 psi vacuum to 3000 psi pressure). |
| <b>Over pressure range</b> .....      | To 235 bar (3500 psi).  |
| <b>Pressure resolution</b> .....      | 0.1 mbar / 10 Pa.   |
| <b>Material</b> .....                 | Ram/adapters: 316 SS. Body: Steel/aluminium. Seals: Buna-N.                   |
| <b>Pressure connections</b> .....     | 2 x 1/4 " BSP. Optional 1/4 " NPT (7194A-NPT).                                |
| <b>Weight</b> .....                   | 6.8 kg (15 lbs).  |
| <b>Dimensions</b> .....               | 540 x 270 x 130 mm.   |
| <b>Options</b> .....                  | Digital gauges, carry case (7194A-CC), maintenance kit (7194A-MK).            |

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

### Features

- 0.95 bar vacuum to 200 bar (3000 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

|                        |  |
|------------------------|--|
| <b>7194A</b> .....     | <b>Benchtop Pneumatic Pressure Calibration Pump</b><br>(0.95 bar vacuum to 200 bar)      |
| <b>7078</b> .....      | Auto-ranging digital pressure gauge<br>(Vacuum to 200 bar, 0.1 % accuracy of setting)    |
| <b>TEG-G200b</b> ..... | Digital pressure gauge<br>(0 to 200 bar, 0.2, 0.1, 0.05 or 0.02 % FS accuracy available) |