



***Time Electronics***  
*Calibration, Test and Measurement*

# User Manual

## 7117 and 7118 Pneumatic Hand Pumps

Version 1.2  
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### **Time Electronics Ltd**

Unit 5, TON Business Park, 2-8 Morley Road,  
Tonbridge, Kent, TN9 1RA, United Kingdom.

T: +44 (0) 1732 355993 | F: +44 (0) 1732 350198  
mail@timeelectronics.co.uk | www.timeelectronics.com

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Nothing from this manual may be multiplied, or made public in any form or manner, either electronically or hard copy, without prior written consent from Time Electronics Ltd.

This also applies to any schematics, drawings and diagrams contained herein.

This manual provides operating and safety instructions for the Time Electronics product.

To ensure correct operation and safety, please follow the instructions in this manual.

Time Electronics reserves the right to change the contents, specifications and other information contained in this manual without notice.

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# 1 Introduction



Pocket sized pumps that provide a simple and compact solution to field pressure generation. Each pump combines a smooth and controlled operation with a rugged yet lightweight design, making them the ideal tool for instrumentation engineers that perform site pressure testing.

Construction is anodized aluminium with a durable plastic handle that prevents body heat transfer from interfering with readings. An oversized check valve enables smooth operation, and dual o-rings on all pistons to ensure zero leakage. Both units are supplied with a 1 meter 6/4 mm hose and fitting. Both units are supplied with a 1 meter 6/4 mm hose and fitting (1/4 BSP as standard, others upon request).

Optional digital pressure gauges are available from the TE Gauge range, with both vacuum and compound models available. Recommended gauges are the TEG-CV7b models that cover the range of the 7118 and 7117 (vacuum to 7 bar) with accuracies of 0.2, 0.1, 0.05, and 0.02 % of full scale available.

## 2 Specifications

|                          |  |
|--------------------------|--|
| <b>Range</b> .....       | 7118: 0 to 7 bar (100 psi).<br>7117: Vacuum to 950 mbar (28 " Hg). |
| <b>Media</b> .....       | Air.   |
| <b>Materials</b> .....   | Anodized aluminium body, Delrin® plastic handle, nitrile O-rings.  |
| <b>Connections</b> ..... | 1/4 " BSP on hose and 1/8 " NPT/BSP on unit.                       |
| <b>Hoses</b> .....       | 1 meter 6/4 mm hose.   |
| <b>Dimensions</b> .....  | H 220 x W40 mm.  |
| <b>Weight</b> .....      | 70 g (1.5 lbs).  |
| <b>Options</b> .....     | Digital pressure gauges, pressure fittings.                        |

## 3 Contents

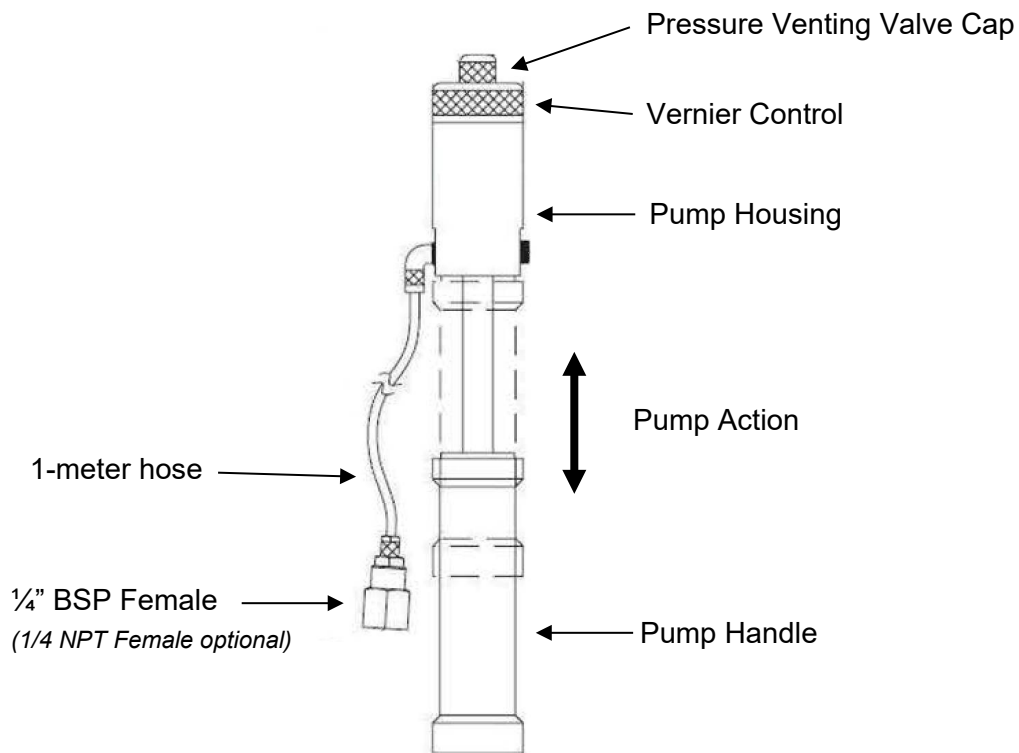
- 7117 or 7118 hand pump.
- 1 meter of hose
- 1/4" BSP Female (1/4" NPT Female on request)
- User manual



## 4 Operational Guidelines

1. Ensure all units under test are disconnected from process pressures before connecting the pump.
2. Do not exceed the maximum pressure rating:  
7117: -1 bar (-14.5psi)  
7118: 10 bar (145psi).
3. Both 7117 and 7118 are supplied with ¼" BSP Female (¼" NPT Female on request).
4. Use only PTFE tape or PTFE washer to seal the process connector to the unit under test. Hand tighten, and then fully tighten with a spanner. Do not over-tighten, this could strip thread.
5. Prior to operation, turn the vernier control to the middle of its travel.
6. Do not use with liquids.

## 5 Operation



1. Connect the pump via a suitable adaptor to the unit under test (UUT).
2. Set the vernier control to the midpoint of its travel.
3. Close the vent knob.
4. Pull the handle out and push back in to increase the vacuum or pressure, repeating until the desired output is achieved.
5. Use the vernier control for fine adjustments.
6. To release the vacuum or pressure turn the pressure relief valve cap anticlockwise until released.

## 6 Warranty and Servicing

### Warranty

Time Electronics products carry a one-year manufacturer's warranty as standard.

Time Electronics products are designed and manufactured to the highest standards and specifications to assure the quality and performance required by all sectors of industry. Time Electronics products are fully guaranteed against faulty materials and workmanship.

Should this product be found to be defective, please contact us using the below details. Inform us of the product type, serial number, and details of any fault and/or the service required. Please retain the supplier invoice as proof of purchase.

This warranty does not apply to defects resulting from action of the user such as misuse, operation outside of specification, improper maintenance or repair, or unauthorized modification. Time Electronics' total liability is limited to repair or replacement of the product. Note that if Time Electronics determine that the fault on a returned product has been caused by the user, we will contact the customer before proceeding with any repair.

### Product Registration

You can register your product at: [www.timeelectronics.com/contact/product-registration](http://www.timeelectronics.com/contact/product-registration)  
Registering your product will enable us to maintain a record of purchase for your warranty. You can also use the web form to provide feedback about our products and services.

### Calibration and Repair Services

Time Electronics offers repair and calibration services for all the products we make and sell. Routine maintenance by the manufacturer ensures optimal performance and condition of the product. Periodic traceable or accredited calibration is available.

### Contacting Time Electronics

#### **Online:**

Please visit [www.timeelectronics.com](http://www.timeelectronics.com) and select Technical Support from the Contact links. From this page you will be able to send information to the Time Electronics service team who will help and support you.

#### **By phone:**

+44 (0) 1732 355993

#### **By email:**

[mail@timeelectronics.co.uk](mailto:mail@timeelectronics.co.uk)



## Returning Instruments

Prior to returning your product please contact Time Electronics. We will issue a return merchandise authorization (RMA) number that is to accompany the goods returning. Further instructions will also be issued prior to shipment. When returning instruments, please ensure that they have been adequately packed, preferably in the original packing supplied. **Time Electronics Ltd will not accept responsibility for units returned damaged.** Please ensure that all units have details of the service required and all relevant paperwork.

Send the instrument, shipping charges paid to:

### **Time Electronics Ltd**

Unit 5, TON Business Park, 2-8 Morley Road,  
Tonbridge, Kent, TN9 1RA.  
United Kingdom.

Tel: +44(0)1732 355993

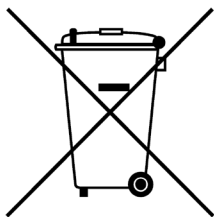
Fax: +44(0)1732 350198

Email: [mail@timeelectronics.co.uk](mailto:mail@timeelectronics.co.uk)

Web Site: [www.timeelectronics.com](http://www.timeelectronics.com)

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## Disposal of your old equipment



1. When this crossed-out wheeled bin symbol is attached to a product it means the product is covered by the European Directive 2002/96/EC.
2. All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.
3. The correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health.
4. For more detailed information about disposal of your old appliance, please contact your city office, waste disposal service or return to Time Electronics.