

PART NUMBER	TE3
SERIAL NUMBER	

TE3 Digital test unit - Quick Start Manual

Please read and save these instructions. Read carefully before attempting to assemble, install, operate or maintain the product described. Protect yourself and others by observing all safety information. Failure to comply with instructions could result in personal injury and/or property damage! Retain instructions for future reference.

Safety Guidelines

This manual contains information that is very important to know and understand. This information is provided for safety and to prevent equipment problems. To help recognise this information, observe the following symbols.



Danger indicates an imminently hazardous situation which if not avoided WILL result in death or serious injury.



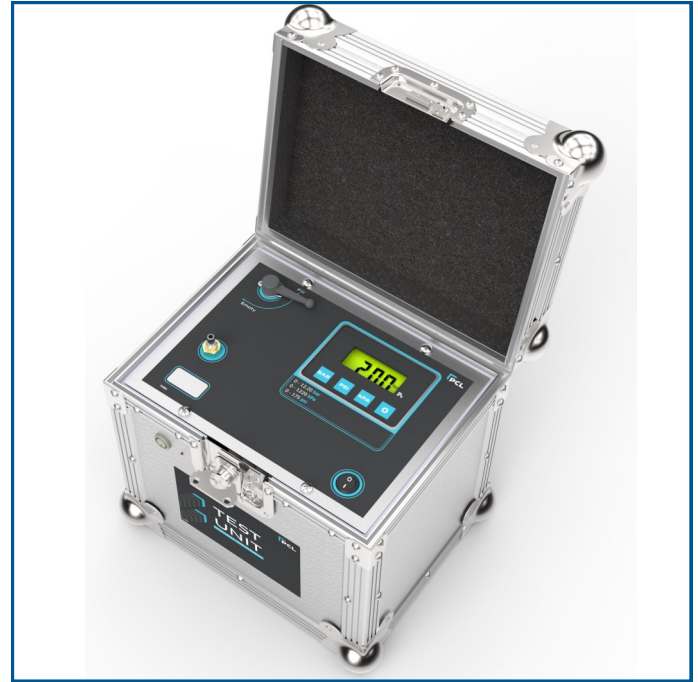
Warning indicates a potentially hazardous situation which if not avoided, COULD result in death or serious injury.



Caution indicates a potentially minor or moderate injury.



Notice indicates important information, that if not followed, may cause damage to equipment.



Unpacking

After unpacking the unit, inspect carefully for any damage that may have occurred during transit.



Do not operate unit if damaged during shipping, handling or use.

General Safety Information

The operator of this product must take the necessary precautions to prevent the level of danger indicated by these symbols. The operator is required to read and understand this instruction manual and all safety warnings, labels etc.

Any employer allowing the use of this product in their field of work must distribute this instruction manual to all users. The employer must also ensure all users read, understand and follow the instructions as described in the manual, safety warnings, labels, etc.



Read and understand all safety warnings and instructions before operating this product. Failure to read and follow all safety warnings may result in serious personal injury or death.



Property damage and/or product damage may also occur if all warnings are not followed.

1. Do not expose the product to flammable gases, vapours or fumes
2. Do not store flammable gases in or near this product
3. Never use flammable or toxic solvents to clean the product or any of the unit's parts
4. Never remove or alter any safety warning labels, tags, etc. located or provided with product.
5. Follow all directions for maintenance.

The use of other than genuine PCL replacement parts may result in reduced equipment performance. Repairs must be performed by authorised repair personnel, otherwise the warranty will be void.

General Specifications

Max gauge reading:	175 psi / 12.2 bar / 1220 kPa
Units of measurement:	psi / bar / kPa
Display resolution:	0.1 PSI/ 0.01 bar / 1 kPa
Battery type:	12V 2.5Ah Nickel Metal Hydride Rechargeable
Hours running time:	50 hours continuous before recharge
Pressure vessel volume	3.8 Litres
Maximum pressure allowable	13 bar <50barlitres
An Internal Safety relief valve is fitted.	

Installation

Before use fully charge the Test Unit with the supplied Battery Charger. The Charger includes UK/EU and US plug adaptor

Ensure the compressor producing the air has the necessary water and dirt filtration to minimise accumulation of debris inside the pressure vessel.

Outdoor use

Ensure the unit is protected from rain and water ingress

Calibration & Accuracy

The accuracy of our digital units when released from our factory is

- **Accuracy according to EN12645 Inflation tolerance 1/4 of EN12645**

+/- 0.02 bar from 0—to and including 4 bar
+/- 0.03 bar above 4 bar to and including 10 bar
+/- 0.05 bar above 10 bar

Accuracy levels above 4 bar exceed EN12645 standards

Each unit, before release, is checked and calibrated on test equipment that has accuracy traceable to a UKAS Laboratory No. 0221 referenced to certificate 0029346.

Control Panel

Ensure the battery is fully charged with the appropriate mains plug, UK,EU or US. Connect the charger jack to the front of the case (**Fig. 1.2**).



Upon connection of charger observe the LED light condition in the box

LED	MODE
YELLOW	Battery not connected
YELLOW	Battery initialisation and analysis
ORANGE	Fast charge
Green with intermittent yellow flash	Top-off Charge
GREEN	Trickle Charge
Alternating ORANGE—GREEN	Error

Note: During charging the buttons are disabled but the display and pressure measurement is fully operative.



Start-up

1. Turn on power supply
2. Display will show all LCD digits check
3. Display will show the current Firmware version number e.g. '.1.0.1'
4. Display will show Program model variant '379'
5. Display will show the application, 'Std'
6. After 10 seconds the display will show '- - -'
7. The unit will then display the pressure gauge reading.

Do not allow the Test Unit to be started with any pressure in the tank otherwise Error E5 will show. If this occurs turn ball valve to 'EMPTY' and restart.

Standard Operation

Pressure Check

1. Switch on the power switch, the red LED will light up next to charger point. (**Fig. 1.1 & Fig. 1.2**)
2. Ensure tank is empty (Ball valve turned to 'EMPTY'—Press Button '0' to reset Zero point (only required periodically).
3. Set desired pressure unit by touching either 'bar', 'psi' or 'kpa' buttons
The Set unit is saved for the next power cycle.
4. Set ball valve to fill (**Fig. 2.0**)
5. Connect to the 8V1 Valve Product requiring testing observe comparison readings.
6. Empty tank after use.

Fig. 1.1

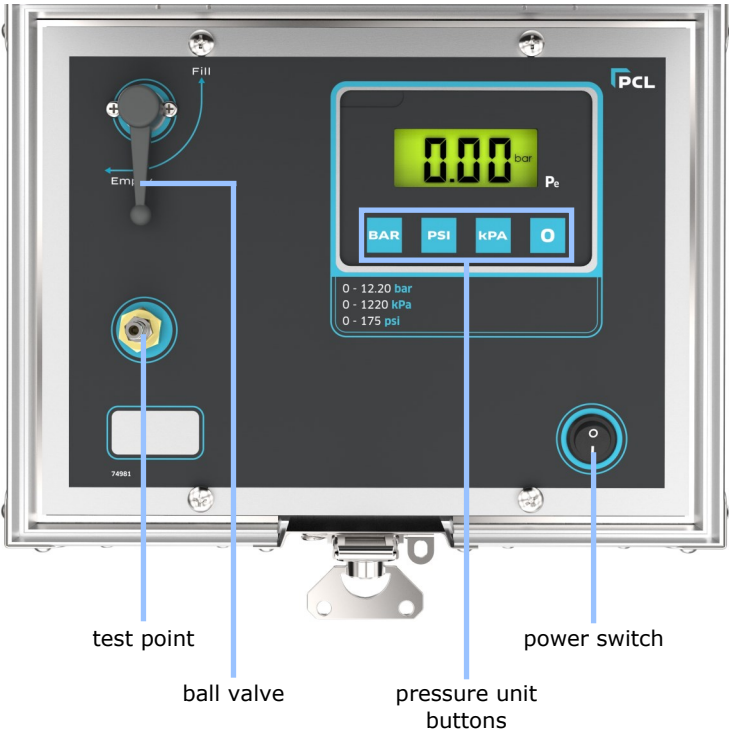
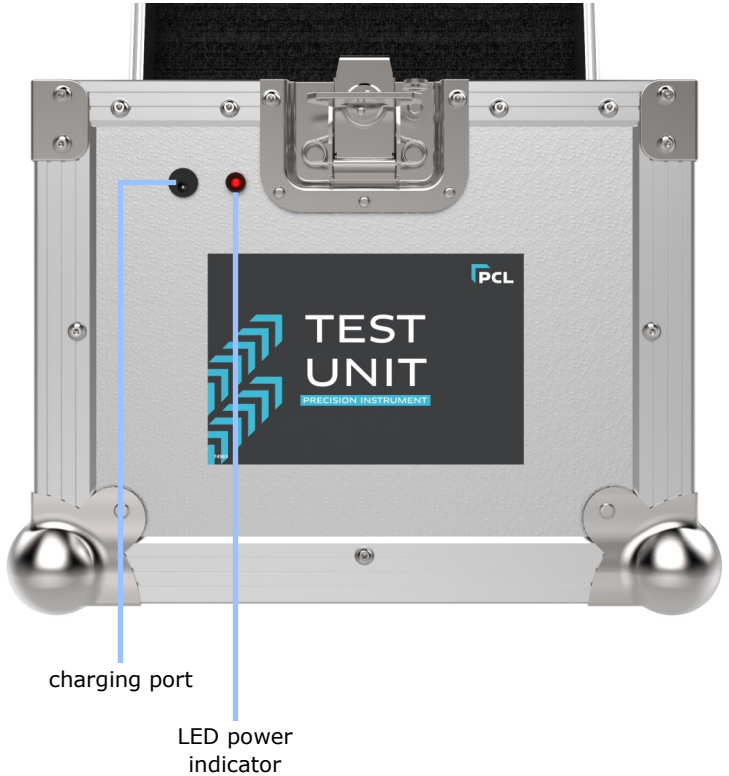


Fig. 2



Fig. 1.2



Service/Maintenance

There is no requirement to service the following items:

1. Pressure Transducer
2. Electric Control Board

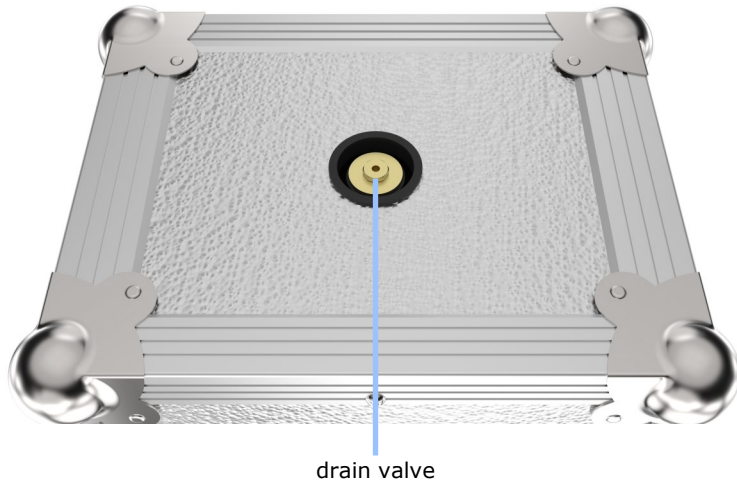


If these are faulty they can only be replaced by a competent person. Please refer to an Authorised Dealer.

Periodically

- Clean the unit with a damp cloth, do not use chemicals or solvents
- Check the 8V1 test valve
- Periodically check the charger and lead is not damaged
- Periodically unscrew the drain valve as observed in **Fig. 3**

Fig. 3



Working safety instructions

Since the unit is not explosion-proof, the device should not be installed in areas where explosions are possible. Consideration must be given to the requirements relative to Hazardous Area Standards for your region or country.



The unit is designed and built to the relevant basic health and safety requirements of the EC.

This product can be dangerous if used improperly. Children should not be allowed to use this equipment, as incorrect setting can allow tyres to be over inflated and a subsequent tyre burst/explosion can occur!

Each person who is involved with installation, start-up, maintenance and the operation of the unit must read and understand the complete operating manual.



This unit is designed to measure other inflation products.

Each use which doesn't follow this purpose as well as modifications to the product will be deemed to be improper use. The manufacturer is not liable for damages caused by improper use, the risk lies solely with the user.



High Pressure air is stored within the system.



Do not exceed the maximum contents of 12.3 bar



To avoid the risk of personal injury, especially to the eyes, face or skin **DO NOT** direct the air/N₂ stream at any person.

Trouble Shooting Guide/Error Messages

Problem	Possible Cause	Solution
No display	No power connected Battery flat	Switch power on Charge battery
Connector will not seal to the tyre stems	Worn 8V1 Test port	Replace 8V1 Test port.
Display shows '- -'	Pressure contents is above maximum pressure reading	Reduce pressure in tank
E2	Faulty Pressure Sensor	Refer to authorised repairer
E5	Attempted to rest Zero under with pressure tank inflated with residue pressure	Empty tank fully, open ball valve before attempting a Re-Zero
E6	Pressure sensor drift out	New sensor required - Refer to authorised repairer
E8	Pressure sensor disconnected from PCB or faulty	New sensor required - Refer to authorised repairer
E9	Pressure sensor failure - high	New sensor required - Refer to authorised repairer
E10	Under voltage	Check power supply
E11	Over voltage	Check power supply - Refer to authorised repairer
E12	Checksum corrupted	New PCB required - Refer to authorised repairer
E13	Lost or corrupted calibration settings	New PCB required - Refer to authorised repairer
E17 Through to E28	Microprocessor fault	Recalibrate unit - Refer to authorised repairer

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PCL LIMITED WARRANTY

PCL warrants the components of each unit to which this Limited Warranty applies against defects in materials and workmanship for a period of twelve (12) months from date of sale (as evidenced by bill of sale or equivalent) or for a period of eighteen (18) months from date of shipment from PCL manufacturing facility (identifiable by the serial number and noted on original bill of lading from the manufacturing facility), whichever period is shorter. During this warranty period and subject to the conditions set forth in this statement, PCL will, at its option, repair or replace component parts that were defective at the time of shipment from PCL manufacturing facility, subject, however, to the following specific EXCLUSIONS: hoses and connections.

Repair or replacement will not extend the warranty period.

Customer must give PCL timely notice of any warranty claim by contacting an authorized PCL service centre. Claims must be accompanied by (1) evidence, by a bill of sale or equivalent, which clearly establishes date of purchase of the unit and (2) the serial number, found on the unit. Customers must properly pack parts in their original or equivalent packaging, prepay shipping charges, and insure the shipment or accept the risk for loss or damage in shipment. Return shipment to customer will be freight collect unless otherwise agreed. For service at a customers location, customer will be charged the then prevailing service rates .

The Limited Warranty applies to PCL manufactured units only. Items listed in the applicable operators manual under routine maintenance are not covered by this or any other warranty. Failure to complete maintenance as stated in any applicable maintenance schedule will void the Limited Warranty. The Limited Warranty is expressly conditioned upon proper and normal use and service of the unit and upon strict compliance by customer with all of PCL instructions and recommendations for installation, operation and maintenance. The Limited Warranty does not apply to the unit or parts that are damaged or become defective due to improper handling, maintenance, storage, use, or operation, and does not cover ordinary wear and tear, corrosion, or erosion.

THE LIMITED WARRANTY SET FORTH IN THIS STATEMENT CONSTITUTES PCL'S SOLE WARRANTY FOR THE UNIT AND THE REMEDIES SET FORTH HEREIN CONSTITUTE CUSTOMERS SOLE REMEDIES FOR BREACH OF WARRANTY. THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, IN FACT OR BY LAW, INCLUDING WITHOUT LIMITING THE GENERALITY OF THE FOREGOING, ANY WARRANTY OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Determination of the suitability of the unit for the use contemplated by the customer is the sole responsibility of the customer. PCL shall not, under any circumstances, be liable in contract, tort or otherwise (including negligence and strict liability) for indirect, special, incidental, or consequential damages, and PCL's total liability shall not exceed the net purchase price for the unit. PCL shall be excused for delay or inability to perform obligations due to events beyond its reasonable control.



CUT HERE

Warranty Registration

Please complete and mail this form to activate warranty
Or visit us at www.pclairtechnology.com

Mail

Warranty Department
PCL
Holbrook Rise
Holbrook Industrial Estate
Sheffield
S20 3GE
United Kingdom

Name _____ Title _____

Company Name _____

Type of Business _____

Address _____

City _____ County _____ Post Code _____

Telephone _____

Part Number _____ Serial No _____

Purchased From _____

Purchase Date _____

DRIVEN BY AIR.



Pneumatic Components Limited
Holbrook Rise
Holbrook Industrial Estate
Sheffield S20 3GE

T +44 (0)114 248 2712
sales@pclairtechnology.com
www.pclairtechnology.com

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