

PART NUMBER	
SERIAL NUMBER	

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



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



CAUTION Caution indicates a potentially minor or moderate injury.



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

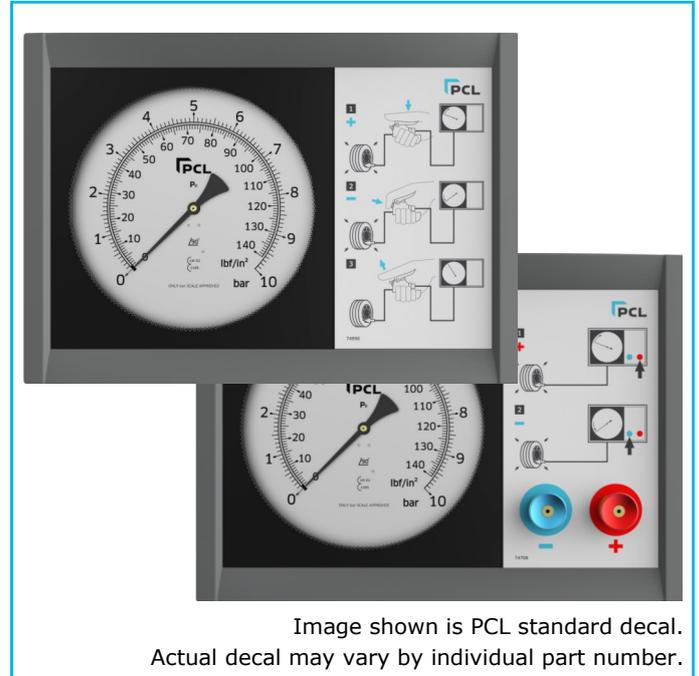


Image shown is PCL standard decal. Actual decal may vary by individual part number.

Unpacking

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



WARNING 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.



WARNING Read and understand all safety warnings and instructions before operating this product. Failure to read and follow all safety warnings may result in serious personnel 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.



CAUTION 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 inlet supply:	232 psi / 16 bar / 1600 kPa / 16.3 kgf/cm ²
Recommended supply:	200 psi / 13.8 bar / 1380 kPa / 14 kgf/cm ²
Max operating pressure:	150 psi / 10.5 bar / 1000 kPa / 10.5 kgf/cm ²
Display resolution:	2 psi / 0.1 bar / 20 kPa / 0.1 kgf/cm ²
Units of measure:	psi / bar / kPa / kgf/cm ²

Installation

The recommended supply line materials are copper or galvanised steel tube and it is important that the line is blown out thoroughly, to remove any foreign matter, before connection is made to the unit.

Air Supply Connection

Wall Unit - Tailpiece to suit 5mm diameter hose or Rp 1/4 female thread (tailpiece is removable).

Pedestal Unit - G 3/8 male thread

The compressor producing the air should have the necessary water and dirt filtration, to minimise accumulation of debris at the filter at air input port.

The wall-installed unit identify the position for the unit and mark out hole centres on the wall 360mm wide by 150mm high and drill to suit 8mm diameter fixing bolts

The pedestal-installed unit identify the position for the unit and mark out hole centres on the floor 320mm wide by 160mm deep and drill to suit 12mm diameter fixing bolts.

Calibration & Accuracy

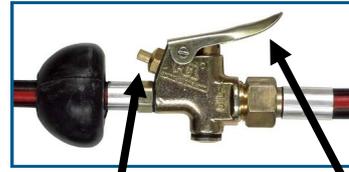
The accuracy of our mechanical units when released from our factory:-

Exceeds EC Directive 86/217

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.

Controls

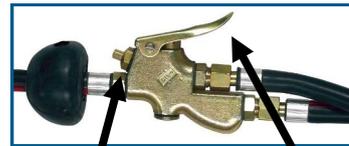
WM1 & PM1 Series Hand Control



Deflate button

Inflate lever

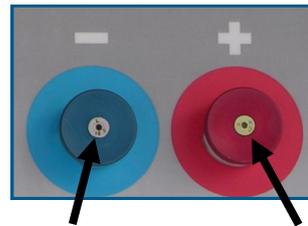
WM2 & PM2 Series Hand Control



Deflate button

Inflate lever

WM3 Series Push Button Control



Deflate button

Inflate button

Operation

NOTICE

Immediately the connector is placed on the tyre valve, the gauge on the unit will automatically read the pressure in the tyre.

Inflation

1. Connect the hose to the tyre
2. Depress the inflate lever or the inflate button
3. Release the lever/button and read pressure from the gauge
4. Repeat steps 2 - 3 until desired pressure is reached

Deflation

1. Connect the hose to the tyre
2. Depress the deflate button
3. Release the button and read pressure from the gauge
4. Repeat steps 2 - 3 until desired pressure is reached



WARNING

This unit is not suitable for the filling of bicycle tyres with a standard (Presta, Woods) bicycle valves and adapters. Over fill of the tyre is possible!

Service/Maintenance

Periodically

- Check the hose.
- Check the tyre connector.
- Light lubrication of the hand control at the point provided.
- Remove air input supply from the unit and remove filter and clean. Replace filter and check the tailpiece 'O' ring is air tight when turning on the main air supply.



Turn off main air supply and release pressure in the supply line, by depressing the lever on the hand control, before undertaking any service/maintenance.

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 tyre to be over inflated and a subsequent tyre burst/explosion can occur!

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

The PCL tyre inflators are exclusively approved for the dispensing of air/N₂. 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.



Proper use of the product also implies the observance of the manufacturers instructions with regard to installation, start-up, operation and maintenance.



All works concerning installation, start-up, adjustment and maintenance must be made by qualified staff. For the operation of this tyre pressure inflator the local safety and accident prevention rules must be observed in all cases.



High Pressure air is stored within the system.



Do not exceed the maximum air input pressure.

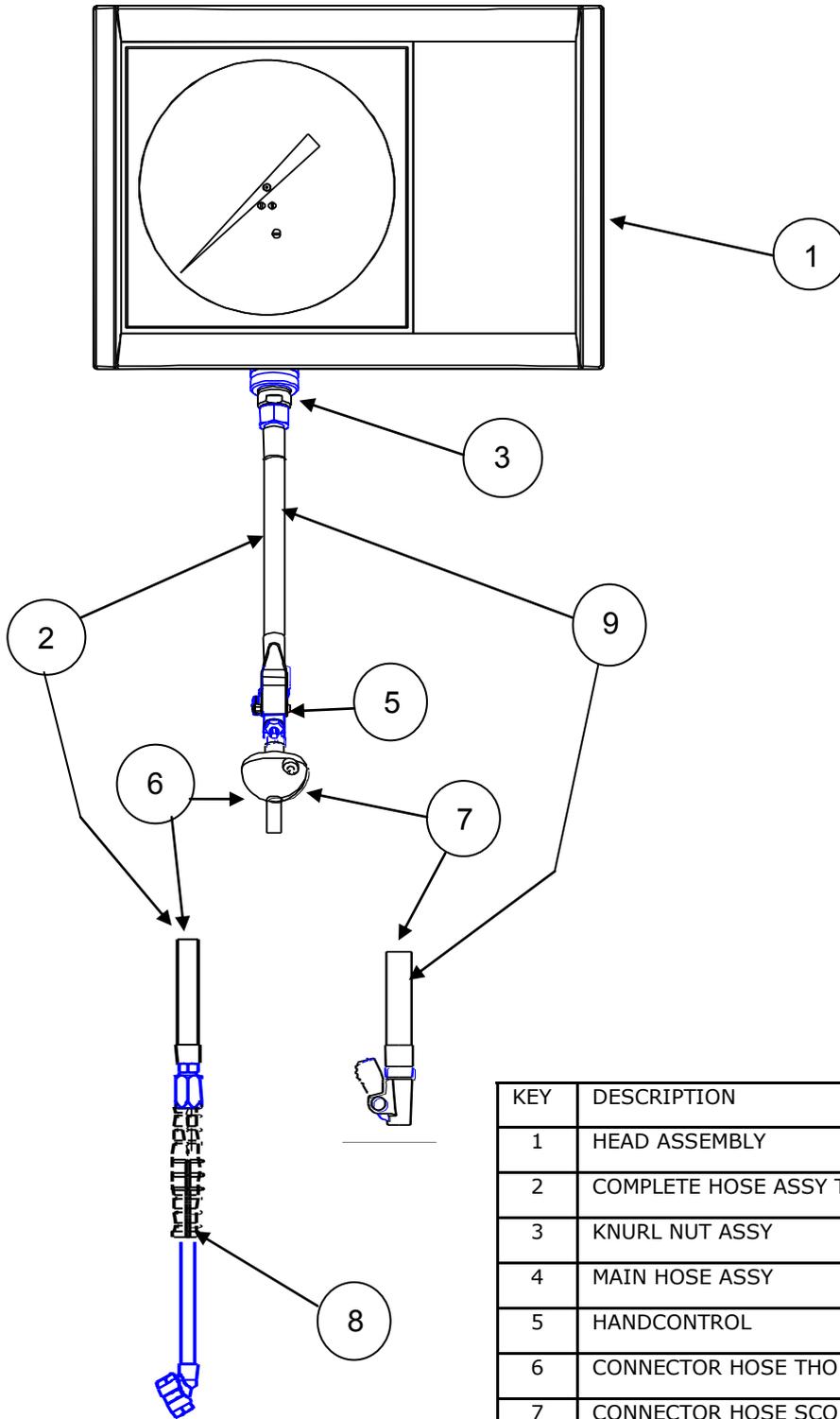


Do not operate this product if tired or under the influence of medication, drugs or alcohol.



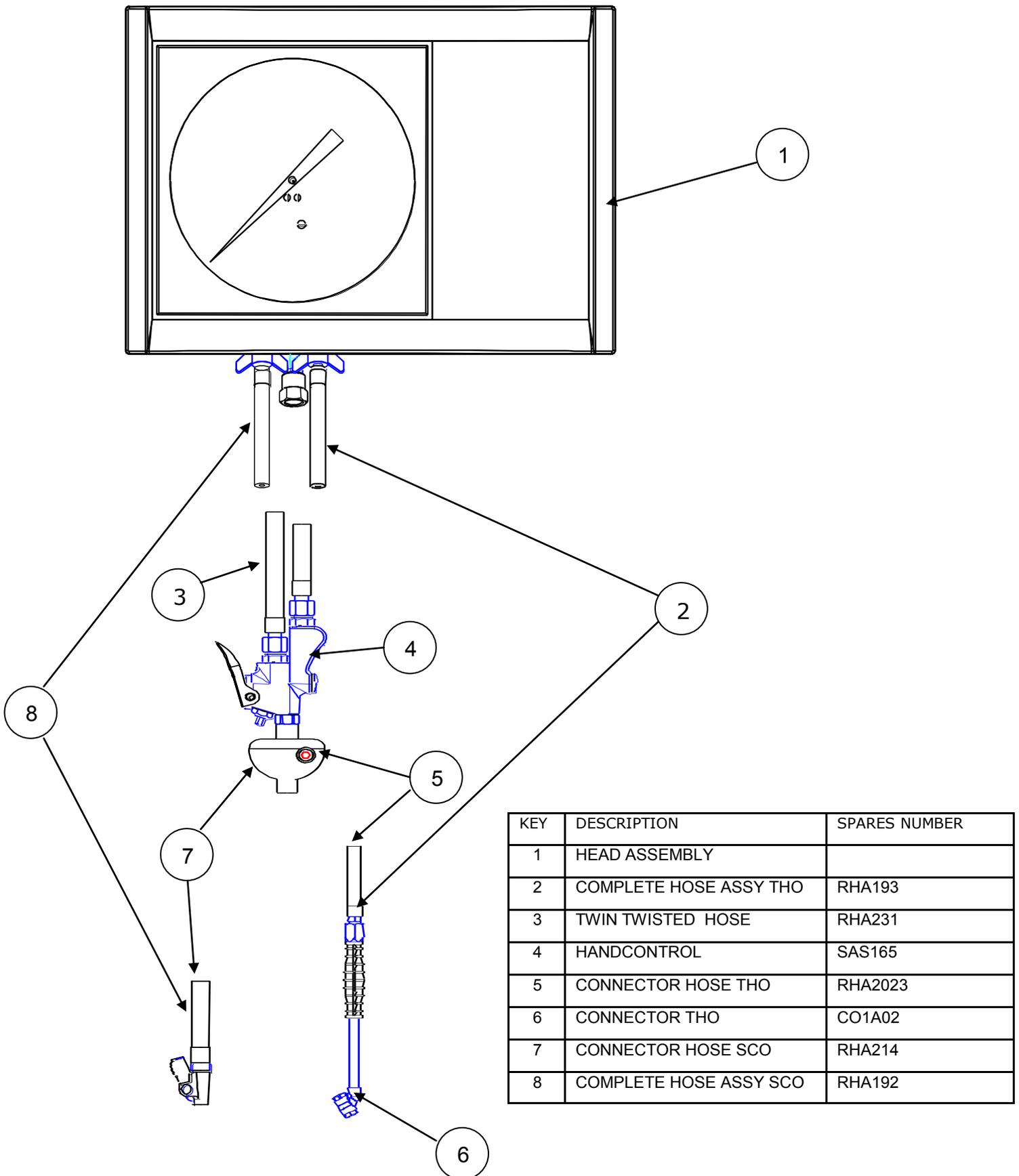
To avoid the risk of personal injury, especially to the eyes, face or skin DO NOT direct the air/N₂ stream at any person.

WM1 / PM1 Series - Hose Assembly Spares



KEY	DESCRIPTION	SPARES NUMBER
1	HEAD ASSEMBLY	
2	COMPLETE HOSE ASSY THO	RHA195
3	KNURL NUT ASSY	SAS263
4	MAIN HOSE ASSY	RHA224
5	HANDCONTROL	SAS164
6	CONNECTOR HOSE THO	RHA2023
7	CONNECTOR HOSE SCO	RHA214
8	TWIN HOLD-ON CONN	CO1A03
9	COMPLTE HOSE ASSY SCO	RHA194

WM2 / PM2 - Series Hose Assembly Spares



Trouble Shooting Guide/Error Messages

Problem	Possible Cause	Solution
No inflation/deflation process	Faulty connector	Replace faulty connector
Inflation process starts but does not complete	Low or no supply pressure Leaks exist	Check supply pressure Confirm leaks do not exist
Inflating or deflating is very slow	Check that filter at air input port are not blocked	Clean and or replace filters
Connector will not seal to the tyre stems	Connector worn	Replace connector
Connector leak while not connected to tyres	Connector worn	Replace connector
Erratic or incorrect gauge readings	Hand control "sticking" Leakage at hand control	Light lubrication at the point provided Replace washers and/or piston unit - hand control service kit SPK18
Constant air loss at the connector	Hand control fault	Check the seating of the main valve in the hand control
Leakage from unit at hose connector point	Worn washers/seals	Replace washers - SPR1884
Gauge does not register pressure	Hand control port may be blocked	Remove side cap screw and clean with either compressed air and a fine piece of wire

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

Name _____ Title _____

Mail to:

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

Company Name _____

Type of Business _____

Address _____

City _____ County _____ Post Code _____

Telephone _____

Part Number _____ Serial No _____

Purchased From _____

Purchase Date _____

Calibration Certificate

Each unit, before release, is checked and calibrated on test equipment that has accuracy traceable to Druck pressure indicator S/N2329290.

The Druck unit is referenced to Certificate 0029346 issued by UKAS Laboratory No. 0221. This accuracy exceeds EC Directive 86/217/EC and BS EN 12645:1999 (MPE = 0.08 bar).

READING	SET PRESSURE			ACTUAL PRESSURE
	BAR	PSI	KPA	
1				
2				

PART NUMBER	
SERIAL NUMBER	
TESTED BY	
DATE	