

DRIVEN BY AIR.



## Forecourt Tyre Inflation Solutions

the most sophisticated and comprehensive range of tyre inflation equipment available for petrol filling stations

A HORNGROUP COMPANY

[www.pclairtechnology.com](http://www.pclairtechnology.com)

# The PCL heritage

Founded in 1938, when the first pressure gauges were designed and manufactured in Sheffield. Now part of the HORNGROUP, along with the HORN TECALEMIT (Germany) and TECALEMIT (USA) brands, PCL is recognised as the global market leader in the design, manufacture and distribution of the most advanced and comprehensive portfolio of forecourt tyre inflation products.

With over 75 years of experience designing and manufacturing tyre inflation and compressed air equipment, PCL is a dynamic yet customer focussed and forward thinking company.

PCL's products are a familiar sight in garage forecourts, tyre shops,

factories and workshops throughout the world. PCL continue to expand globally, providing first-class, reliable and cost effective products for tyre inflation and pneumatics, with localised service in all locations.



Our dedication to customers means we are not just a supplier of products, we act as a partner too. We provide you with a full after sales service, as well as support to sell our products, such as bespoke product literature, training and product user manuals.

Our customers have access to a full technical support hotline, and site visits where necessary. We also help you to identify the best revenue generators for your business.



# Introduction

PCL has a solution for every forecourt application, from the highest tech digital model with built-in air and water reels and coin/token mechanism facility, through to the classic fixed mechanical unit with traditional display and lightweight yet robust portable and handheld units.

With its proactive approach, PCL is established internationally as the market leader in forecourt inflation solutions, providing quality products to help your business prosper.

## Comprehensive package

PCL offer a wide range of cost effective forecourt tyre inflation solutions to fit all customers needs.

## Quality

Each PCL product is thoroughly tested to internationally recognised standards, providing calibration certification, where applicable, before it leaves the factory - giving you complete peace of mind.

## Built to last

Using only the highest quality components, you can be safe in the knowledge that the products are built with reliability and durability in mind.

## Performance

PCL products out-perform other brands and where speed is a factor, get the job done quicker. This focus on quality and efficiency means more revenue and profit for your business.

## Experience

With over 75 years of experience designing and manufacturing pneumatic equipment, PCL has the knowledge and extensive technical support that gives you the confidence you have the best products and service available.

# Contents



Self-contained Digital Inflation Towers

4



'Create your own' Digital Inflation Tower

6



Fixed Digital Inflation Units

8



Fixed Mechanical Inflation Units

10



Handheld Inflation Units

12



Portable Inflation Units

14



OEM Inflation Kit Options

15



# Self-contained Digital Inflation Towers

The brand new Self-contained Digital Inflation Tower range from PCL takes the offering to a new level and is built on the firm foundations laid by its predecessors.

The latest air tower range, built in the UK, is designed to meet the exacting and testing demands of the modern petrol forecourt while also providing an attractive and stylish appearance.

The stainless steel or painted casings offer long life and the ability to resist the harsh environment while keeping the unit looking good. All the components from the housing through to

## KEY FEATURES

- Electronic pre-set pressure setting
- Full menu-driven list of options to suit every requirement
- Default to safe setting
- New high performance slow retract hose reels as standard on large towers
- Coin mechanism options available
- Built-in lockable coin vault available on large towers
- Audible and visual end-of-cycle signals
- Stainless steel, plain or painted cabinets
- New electronic capacitive touch buttons
- 30 mm LCD transfective backlit screen as standard
- Screenwash options available for all units
- All units available in alternative voltages (230 v as standard)
- Alternative tyre valve connectors available for all units (short-stem twin hold-on as standard)
- Bespoke graphics available for all units
- 5.5 bar or 10 bar alternative compressors available for all applicable units (7 bar as standard)
- Built-in Nitrogen generator option available for the units without internal compressor

the inflator, the slow retract hose reels and even the radiator filler are built for ease of use, reliability and long life.

The ability to incorporate a compressor inside the units makes them the ultimate in flexibility and able to cope whether mains air is available or not.

## KEY BENEFITS

- Quick and easy installation
- Highly accurate and repeatable inflation
- Low life-cycle costs
- Self-contained units allow flexible positioning
- Wide choice of options to suit exact requirements
- Easy to operate for the road user
- Suitable where mains air is not available
- Revenue stream with coin/token mechanism options
- High quality internal components
- Large easy to read digital backlit screen
- Maintain your corporate image with bespoke graphical designs

## Standard Unit Product Selector Matrix

SPECIFICATION	D90	D91	D92	D93	D95	D96	D97	D98	117 300 000	117 310 000
Slimline cabinet	•	•	•	•						
Standard cabinet					•	•	•	•		
Autoair cabinet									•	•
Internal wire braided hose					•	•	•	•		
Internal compressor (standard 7 bar maximum)			•	•						
Slow retracting air reel c/w 7.62 m hose and twin hold-on connector					•	•	•	•		
Slow retracting water reel c/w 4 m hose and dispenser						•	•	•		
Coiled 7.5 m black PU air hose and twin hold-on connector	•	•	•	•						
Coiled 7.5 m water hose and dispenser		•		•						
Coiled 10 m PU air hose c/w lever valve connector									•	
Loose 8 m hose c/w lever valve connector										•
Stainless steel cabinet option	•	•	•	•	•	•	•	•	•	•
White painted cabinet option	•	•	•	•	•	•	•	•	•	•
Coin mechanism option	•	•	•	•	•	•	•	•	•	•
Lockable coin vault					•	•	•	•		

## SPECIFICATION

Accuracy	0.01 bar / 0.1 psi / 2 kPa / 0.01 kgf/cm <sup>2</sup> (exceeds EC Directive 86/217)
Maximum Inflation Pressure	10 bar / 145 psi / 999 kPa / 10 kgf/cm <sup>2</sup>
Resolution	0.1 bar / 1 psi / 5 kPa / 0.1 kgf/cm <sup>2</sup>
Operating Temperature	-20 C +70 C
IP Rating	IP44
Display	30 mm backlit transfective LCD
Software	Safe 'rate of change' algorithm
Sensor	Ceramic - monolith - minimum 1 x 10 <sup>7</sup> cycles
Buttons	Capacitive touch/quantum
Voltage	220 - 240 Vac / 120 Vac
Power consumption	18 VA
Maximum Inlet Pressure	16 bar/ 232 psi / 1600 kPa / 16.3 kgf/cm <sup>2</sup>
Optional Compressors	5.5 bar - 0.5 HP / 10 bar - 1 HP

## INFLATION SPEEDS

	MAINS AIR (12 bar)	STANDARD INTERNAL COMPRESSOR (7 bar)
2 bar	400 l/min / 14.1 cfm	76 l/min / 2.7 cfm
5 bar	-	50 l/min / 1.8 cfm
8 bar	400 l/min / 14.1 cfm	-

## CABINET DIMENSIONS (mm)

	SLIMLINE	STANDARD	AUTOAIR
Height	1425	1425	1306
Width	409	573	345
Depth	270	441	155

## APPROVALS

	CONTROL PANEL
German	PTB 18.08/00.03, 18.08/05.03 & 18.08/04.01 (Single and Dual Screen)
French	F-06-H-157 (Dual Screen)
Portuguese	245.30.04.0.14 (Single Screen)
Spanish	111063001 (Single Screen)



# 'Create your own' Digital Inflation Tower

With an experienced team of design and engineering professionals at our Sheffield HQ, PCL now has the ability to create bespoke options and designs for customer specific forecourt air towers. By working with you to create a design to meet your own specific requirements, or to simply give your product corporate branding, we can proudly boast one of the best design facilities in the world.

On top of bespoke designs PCL can also create units with additional software and technological advancements to allow the operator to monitor and capture data from the machines. This can be anything from modem installation for remote monitoring to parameter adjustments and GPRS software. All in all PCL has the experience and ability to design and build anything to suit customer requirements.

## PRODUCT OPTIONS

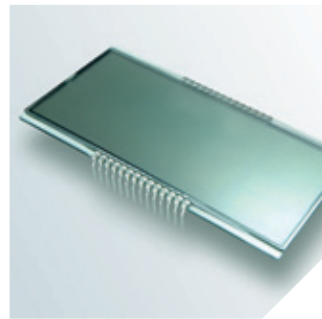
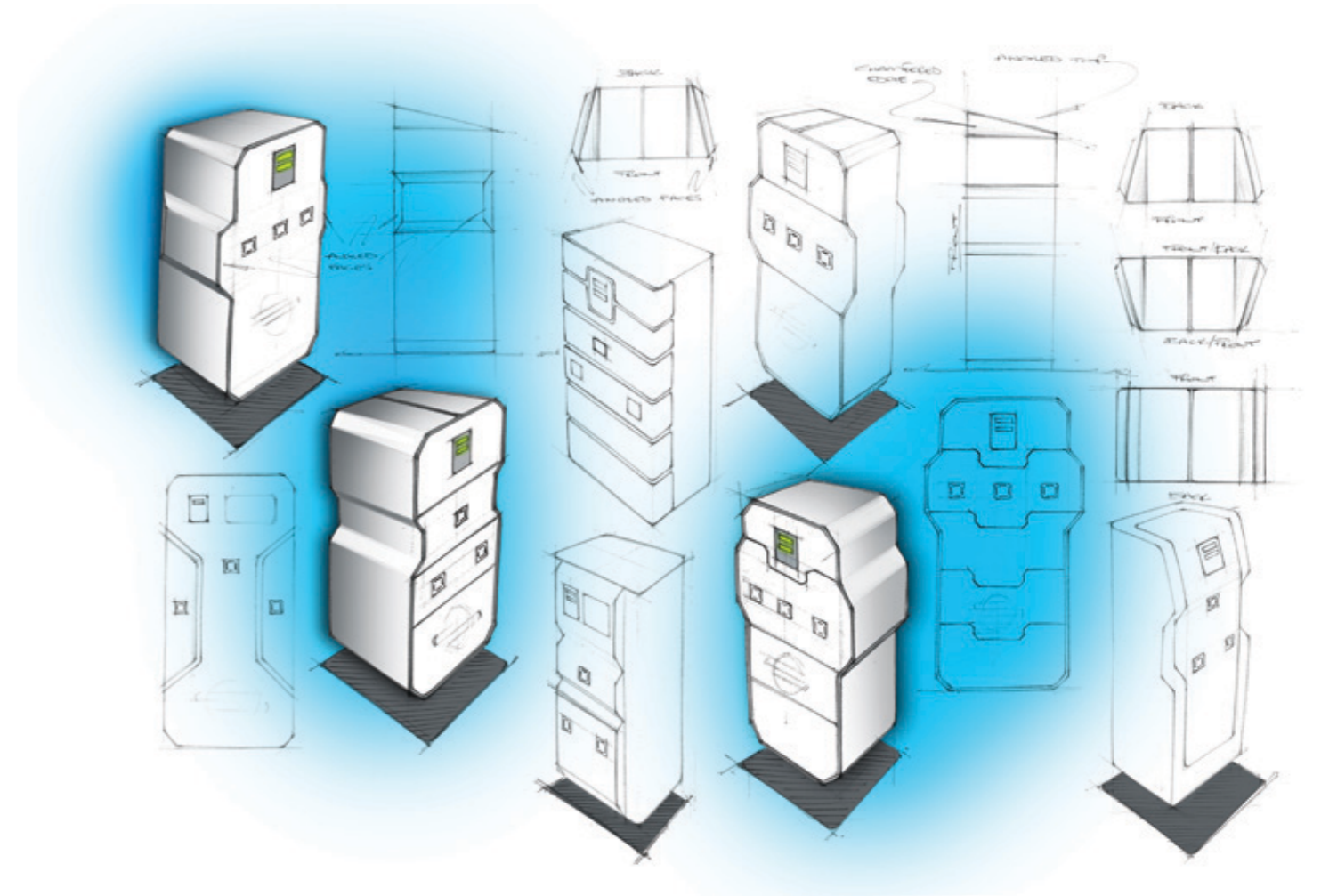
- 
- Futuristic designs and concepts - stand out from the crowd!
- 
- Corporate branded, colour matched paintwork
- 
- Multitude of configurations for internal mechanisms
- 
- Integrated membrane Nitrogen generation systems built-in
- 
- Coin mechanisms with or without lockable coin vault
- 
- Slow retracting hose reels
- 

PCL can also offer a bespoke consultancy service to produce specific software adjustments to meet exact customer requirements. This service has already been successfully integrated into air towers for some of the world's biggest oil companies and retail giants.

## SOFTWARE OPTIONS

- 
- Modem installation for remote system monitoring
- 
- Internet/email GPRS data interrogation
- 
- Coin mechanism/counter remotely monitored via modem and GPRS
- 
- Data capture and logging
- 
- Data transfer to remote printout
- 
- Multi-tyre inflation systems
- 
- Parameter and special inflation adjustments to meet bespoke applications
- 
- Bespoke inflation systems with PC integration
- 
- Graphical User Interface via VGA and touchscreen displays
- 
- Nitrogen 'purge and fill' software and Nitrogen purity monitoring
- 

## Concept development



© PCL 2015



# Fixed Digital Inflation Units

PCL's exciting and innovative fixed digital range of forecourt tyre inflators is firmly established as the premium product for petrol forecourts. With its reliable, durable features combined with touch screen technology make these products the safest, most simple and cost effective solution on the market.

The high air flow abilities of this range provide fast inflation, with advanced technology giving accurate measurements – well above industry standard 86/217/EEC. This tried and tested product enables forecourt managers to offer customers a simple rapid inflation solution.

Auto-start inflation comes as standard, and default to safe setting mode provides the user with the highest safety as well as the benefits of having correctly inflated tyres which includes increased fuel economy, extended tyre life and better road handling.

## KEY FEATURES

- New high flow solenoid as standard
- New electronic capacitive touch buttons
- New high speed microprocessor
- Electronic pre-set pressure setting
- Auto-start inflation
- Full menu-driven list of options to suit every requirement
- Default to safe setting
- Robust die-cast aluminium housing
- Ceramic sensor – accuracy to 0.02 bar / 0.5 psi / 2 kPa
- 230 v, 100/120 v and 12 v versions available
- Can inflate accurately with hoses up to 50 m
- Comprehensive diagnostics and error reporting software
- 10 bar / 145 psi maximum inflation pressure as standard
- Dual screen option available for digital read-out units

## KEY BENEFITS

- Consistent cost effective provision of high levels of safe air inflation services
- Low life-cycle costs – long product life with robust design and proven electronics
- Low and simple maintenance with excellent diagnostics
- Customised software available to meet individual customer needs
- Bespoke graphical designs or corporate branding options available
- Guaranteed accuracy with individual testing calibration certificate supplied

## Standard Unit Product Selector Matrix

SPECIFICATION	D10	D20	D25	A10	A20	A25	117 330 000	117 320 000
30 mm backlit transfective LCD screen	●	●	●	●			●	●
Analogue dial display screen				●	●	●		
Customisable graphics	●	●	●					
High pressure options (16 or 22 bar)	●	●	●					
For wall mounting	●			●			●	●
Pedestal mounted as standard		●	●		●	●		
Loose 7.6 m air hose and twin hold-on connector	●	●	●	●	●	●		
Loose 7.6 m water hose and dispenser			●			●		
Coiled 10 m PU air hose c/w lever valve connector							●	
Loose 8 m hose c/w lever valve connector								●
Stainless steel housing as standard							●	●

## SPECIFICATION

Accuracy	0.01 bar / 0.1 psi / 2 kPa / 0.01 kgf/cm <sup>2</sup> (exceeds EC Directive 86/217)
Maximum Inflation Pressure	10 bar / 145 psi / 1000 kPa / 10.2 kgf/cm <sup>2</sup>
Display Resolution Increments	0.1 bar / 1 psi / 5 kPa / 0.1 kgf/cm <sup>2</sup>
Operating Temperature	-20 C +70 C
IP Rating	IP54
Display	30 mm backlit transfective LCD
Software	Smart inflation algorithm
Sensor Ceramic	Sensor accurate to +/- 0.5% of full scale reading
Buttons	Capacitive touch/quantum
Voltage	220/240 VAC
Power Consumption	18 VA
Maximum Inlet Pressure	16 bar / 232 psi / 1600 kPa / 16.3 kgf/cm <sup>2</sup>

## INFLATION SPEEDS - MAINS AIR (10 bar)

2500 l/min / 88 cfm

## DIMENSIONS (mm)

	D10/A10	D20/A20	AUTOAIR
Height	300	1425	327
Width	420	409	301
Depth	90	270	173

## APPROVALS

	HEAD UNIT ONLY
German	PTB 18.08/00.03, 18.08/05.03 & 18.08/04.01 (Single and Dual Screen)
French	F-06-H-157 (Dual Screen)
Portuguese	245.30.04.0.14 (Single Screen)
Spanish	111063001 (Single Screen)



D10



A10



117 330 000



# Fixed Mechanical Inflation Units

PCL's "Made in Sheffield" Wall Meters offer a simple and sturdy inflation solution for busy garage forecourts.

The PCL range of mechanical tyre inflators reflects the continual innovation provided by the company's design team – and the enduring popularity of the mechanical unit stands testament to the company's ability to make products which last.

Manufactured in Sheffield to the highest quality standards, both the Wall Meters and Post Meters feature an easy-to-read dial with

clear, impact-resistant toughened glass covers. They provide a choice of calibration, and easily detachable hose.

A push-button version is also available.

## KEY FEATURES

- Auto start inflation
- Clear 200 mm metallic dial
- Default to safe setting
- Robust die-cast aluminium housing
- Wall or pedestal mounting
- Choice of connectors available
- Choice of calibrations available
- 7.6 m hose as standard

## KEY BENEFITS

- Multitude of options for ultimate flexibility
- Easy to read large dial display
- Clear impact-resistant toughened glass dial cover
- Powder coated outer casing giving a hard, durable, anti-rust finish
- Easily detachable hose
- Can inflate accurately with hoses up to 50 m

## Standard Unit Product Selector Matrix

SPECIFICATION	WM1	WM2	WM3	PM1
For wall mounting	●	●	●	
Pedestal mounted				●
Co-axial 7.6 m air hose	●			●
Twin twisted 7.6 m air hose		●		
Coiled black nylon 7.6 m air hose			●	
Push button			●	

## SPECIFICATION

Accuracy	0.01 bar / 0.1 psi / 2 kPa / 0.01 kgf/cm <sup>2</sup> (exceeds EC Directive 86/217)
Maximum Inflation Pressure	10 bar / 145 psi / 1000 kPa / 10.2 kgf/cm <sup>2</sup>
Display Resolution Increments	0.1 bar / 2 psi / 20 kPa / 0.1 kgf/cm <sup>2</sup>
Operating temperature	-20 C +70 C
IP rating	IP44
Display	200 mm metallic dial
Maximum Inlet Pressure	16 bar / 232 psi / 1600 kPa / 16.3 kgf/cm <sup>2</sup>

## INFLATION SPEEDS - MAINS AIR (10 bar)

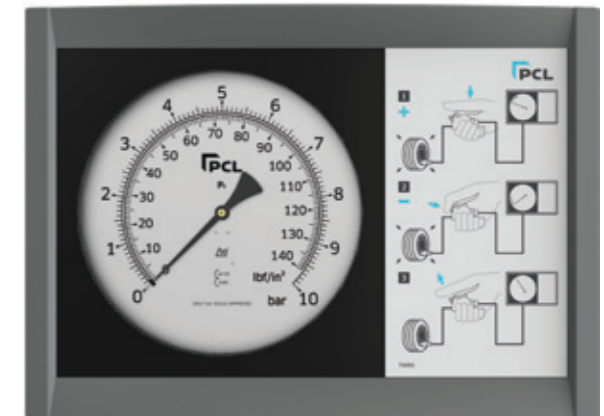
2500 l/min / 88 cfm

## DIMENSIONS (mm)

	WM	PM
Height	300	1445
Width	420	360
Depth	90	200



PM1



WM1



WM3





# Handheld Inflation Units

The highly regarded, classic MK3 Tyre Inflator has become industry standard in many of the world's petrol forecourts and is popular amongst operators for its reliability and accuracy, and sturdy yet slimline design.

The MK3 Tyre Inflator, is robust and highly accurate, offering leading inflation and deflation rates and high performance both indoors and outdoors. Meanwhile the redesigned valve arrangement and larger hose allows air flows up to 30% faster, representing substantial labour-saving for operators.

## KEY FEATURES

New valve design increasing inflation and deflation rates

Cast aluminium body

Proven linear spring gauge

Proven linear gauge display

Individual testing and certification

Bar, psi and kPa versions and large range of options and accessories available

The 'Made in Sheffield' MK3 Tyre Inflators are available with a wide choice of tyre valve connectors and hose lengths to suit all tyre inflation applications.

## KEY BENEFITS

Reduced operating costs with fast inflation and deflation rates

Long life - excellent shock resistance with robust durable design and construction

High versatility - suitable for indoor and outdoor environments and both commercial and retail applications

Guaranteed accuracy - individual testing

## SPECIFICATION

Accuracy	0.01 bar / 0.1 psi / 2kPa / 0.01 kgf/cm <sup>2</sup> (exceeds EC Directive 86/217)
Maximum Inflation Pressure	9.6 bar / 138 psi / 9600 kPa / 9.8 kgf/cm <sup>2</sup>
Display Resolution Increments	0.1 bar / 2 psi / 20 kPa / 0.1 kgf/cm <sup>2</sup>
Operating temperature	-20 C +70 C
IP rating	IP54
Display	Magnified linear scale
Maximum Inlet Pressure	13.8 bar / 200 psi / 1380 kPa / 14.1 kgf/cm <sup>2</sup>
Working Temperature Range	-10C to +60C (working) -30C to +80C (storage) Up to 95% RH non-condensing

## INFLATION SPEEDS - MAINS AIR (13 bar)

500 l/min / 18 cfm

## DIMENSIONS - BODY ONLY (mm)

Height	265
Width	47
Depth	78

## WEIGHT - BODY ONLY (kg)

0.61



## Standard Unit Product Selector Matrix

SPECIFICATION	ALG3*03	ALG3*031	ALG3*04
21 in hose	●		●
14 in hose		●	
Twin hold-on connector	●		
Single clip-on connector			●
Short stem hold-on connector		●	

When ordering replace \* with a letter below, depending on the calibration required.  
**H** - PSI/BAR dual scale reading   **D** - KPA reading only   **F** - PSI/KGF dual scale reading   **J** - KPA/PSI dual scale reading

# Portable Inflation Units

Ideal for garage forecourts, PCL's EC-approved portable tyre inflation units are simple to use, lightweight and robust. Packing all the features required into a space-saving, attractive design, the units are fully portable, easy to recharge, and provide guaranteed accuracy.

## AutoPortair

The AutoPortair takes air to where it is needed, and is therefore perfect for service bays, garage forecourts, car showrooms, emergency breakdown vehicles and workshops – basically any busy environment where access may be restricted and space is at a premium. Easy to manoeuvre, its integral moulded polyethylene feet keep the unit off the ground and greasy surfaces.

Providing guaranteed accuracy, the unit is robust and simple to use, with buttons for inflation and deflation, and comes supplied with installation, operating and servicing instructions.

### KEY FEATURES AND BENEFITS

- Re-charges automatically when returned to the charging point
- Easy to use "+" and "-" buttons for inflation and deflation
- Pressure vessel complies to Directive 2009/105/EC

### SPECIFICATION

Accuracy	Exceeds EC Directive 86/217
Reading Accuracy	0.1 bar / 2 psi
Maximum Inflation Pressure	10 bar / 140 psi
Maximum Inlet Pressure	15 bar / 220 psi
Compliance	EC Directive 86/217 EC Directive 2009/105/EC BS EN 12645:1999



P10H02

## Pavement Gauge

The classic PCL Pavement Gauge is a portable tyre inflation unit popular with garage owners worldwide for over 40 years, amongst whom it is commonly known as the "PG".

Robust and easy to use, it is lightweight yet tough, made from heavy duty alloy with an impact absorbing rubber base. Its clear, toughened glass dial has an angled face to prevent rainwater retention, making it ideal for outdoor use.

Complete with simple push button operation and a handy hook for hose retention, PCL's PG is a handy, space-saving and value-for-money product, which is fully compliant with EC standards.

### KEY FEATURES AND BENEFITS

- Tough, made from heavy duty alloy with impact absorbing rubber base
- Lightweight and easy to carry
- Easy to read toughened glass dial
- Simple push button operation

### SPECIFICATION

Accuracy	Exceeds EC Directive 86/217
Reading Accuracy	0.1 bar / 2 psi
Maximum Inflation Pressure	10 bar / 140 psi
Maximum Inlet Pressure	12 bar / 175 psi
Compliance	EC Directive 86/217 EC Directive 2009/105/EC BS EN 12645:1999



PG1H01

# OEM Inflation Kit Options

As an experienced designer and manufacturer of forecourt tyre inflation solutions, PCL can build bespoke OEM inflation 'kits' where customers have their own cabinets/housings but want a reliable and highly accurate software system.

## Standard Digital OEM Inflation Box

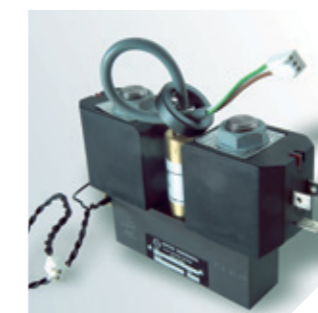
### KEY FEATURES AND BENEFITS

- Hardened plastic housing with pre-drilled mounting holes for easy fixing
- IP44 rated for indoor or outdoor use
- New electronic capacitive touch buttons
- 30 mm LCD transfective display screen for easy reading day or night



### SOFTWARE OPTIONS INCLUDE (BUT ARE NOT LIMITED TO)

- Modem installation for remote system monitoring
- Internet/e-mail GPRS data interrogation
- Coin mechanism/counter remotely monitored via a modem and GPRS
- Data capture and logging
- Multi-tyre inflation systems
- Parameter and special inflation adjustments to meet bespoke applications
- Bespoke inflation systems with PC integration
- Data transfer to remote printout
- Graphical/user interface via VGA and touch-screen displays
- Forecourt Nitrogen purge facility integration



### Standard OEM Kit Selector Matrix

	D60	D64	D69
Digital box to control mains air supply only	●		
Digital control box to control coin mechanism and internal compressor supply only		●	
Digital control box to control coin mechanism, internal compressor and internal water supply			●



**Pneumatic Components Limited**

Holbrook Rise, Holbrook Industrial Estate, Sheffield S20 3GE, United Kingdom

T +44 (0)114 248 2712 F +44 (0)114 247 8342 [info@pclairtechnology.com](mailto:info@pclairtechnology.com)