

DRIVEN BY AIR.



# Aviation Tyre Inflation & Pressure Checking Equipment

A HORNGROUP BRAND

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

# The PCL heritage

PCL is now celebrating 85 years since the first pressure gauges were designed and manufactured in Sheffield, England. Now part of the HORNGROUP, PCL is recognised as a global market leader in the design, manufacturer and distribution of tyre inflation, pressure checking and workshop air equipment.



# Introduction

With over 80 years of knowledge designing and manufacturing pressure equipment PCL are able to provide unrivalled experience for the aviation industry. PCL's products are a familiar sight around the world in line and base maintenance activities and are proud to hold the ISO 9001:2015 accreditation.

PCL continues to expand globally utilising new smart technologies to ensure its customers get the latest products allowing them to deliver excellent services to their customers and drive their revenues.

PCL is continually expanding the range for aviation applications to include both digital and analogue products for tyre inflating and pressure checking. These range from highly accurate handheld devices with interchangeable

hoses and tyre valve connector styles. PCL also offer a comprehensive range of accessories from replacement hose assemblies to different variant tyre connectors and internal spare parts for the full range of products. PCL also has the capability to offer bespoke solutions and private labelling as well as OEM kits for use with existing Nitrogen trolleys where customers want access to PCL's proprietary reliable and accurate digital inflation software to drive the unit.



## Why PCL?

1. Extensive experience in meeting the needs of the Aviation industry for 80 years
2. Wide range of equipment for delivering services to line and base maintenance customers and driving revenue
3. High quality and performance with all equipment built to meet the latest needs of the industry - all tested, calibrated and traceable in-line with our ISO9001:2015 accreditation
4. Versatility - bespoke capabilities and strong service to match
5. OEM services to meet the design needs of the aviation service and equipment providers globally

## Contents



Tyre inflation products

4



Fixed wall mounted/OEM inflation boxes

7



Pressure checking gauges

8



Replacement hoses, spares, service and recalibration

11

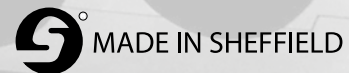


# HIGH PRESSURE AIRFORCE<sup>®</sup> ANALOGUE HANDHELD AIRCRAFT TYRE INFLATOR

Designed for high pressure aircraft tyres, these robust yet lightweight units are available with a calibration of 45 - 300 psi and offer guaranteed accuracy.

The magnified linear scale is easy to read, whilst the attractive slim line design with ergonomic "2 click action" trigger makes them comfortable and easy to use. The Aircraft Model comes complete with hydraulic oil resistant hose assemblies with 8v1 and 12v1 tyre value connectors to suit all aircraft tyre valves.

PCL's high pressure inflators are designed to be durable, with an aluminium body and impact absorbing rubber bumper.



**KEY FEATURES**

- Hydraulic oil resistant hose
- Cast aluminium body
- Proven linear spring gauge
- Magnified clear linear gauge display
- Individual testing, supplied with Test Certificate
- psi Aviation version
- High pressure version with psi/Bar
- Inflation pressure up to 300 psi

**SPECIFICATION**

- Operating Temperature: -15°C to 55°C / 5°F - 131°F
- Reading Accuracy: 0- 25 bar / 5 psi
- Inflation Range: 45-300 psi

**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
- Guaranteed accuracy - individual testing
- Easy fitting and usage

- Storage Temperature: -30°C to 80°C / -22°F - 176°F
- Max Inlet Pressure: 362.5 psi
- Inflation Flow: 500 l/min @ 13 bar supply

**PART NO.      DESCRIPTION**

AFG6A01      Analogue Aviation Tyre Inflator 45-300 psi

**HOSES**

2 x 2M 4G1 hoses with 8V1 & 12V1 screw-on connectors

# HIGH PRESSURE ACCURA<sup>®</sup> DAC6 DIGITAL HANDHELD AIRCRAFT TYRE INFLATOR

This premium indoor and outdoor electronic gauge is set to revolutionise the aircraft industry offering features and performance in all the key demands of discerning line and base maintenance personnel – robustness, lightweight, accuracy, speed, safety and versatility with a backlit LCD screen for ease of use in all light conditions.



## KEY FEATURES

Extremely robust aluminium body, virtually indestructible polycarbonate screen and protective rubber bumper

Backlit LCD screen

2 second button hold pressure toggle options

Safety relief valve

Available with 2 hydraulic oil resistant armoured hoses

Serialised and supplied with calibration certificate and declaration of conformity

Replaceable 2 X AAA batteries power unit (supplied)

Registered Design

## SPECIFICATION

Operating Temperature: -15°C to 55°C / 5°F - 131°F

Reading Accuracy: 0.1 psi / 0.01 bar

Accuracy: +/- 2psi up to 350 psi

Compliant with: BS EN12645:2014

Low battery warning – appears on the screen

Autostart with LCD check on every "wake-up"

## KEY BENEFITS

Long, accurate life expectancy

Allows for clear pressure readings at night and in dark aircraft hangars

Increased flexibility

Prevents over inflation or sudden over-pressurising of the gauge

Flexibility to quick change between 8v and 12v tyre valves

Complete piece of mind for accuracy and traceability

In normal working environment over 400 working hours

Storage Temperature: -30°C to 80°C / -22°F - 176°F

Max Inflation: 350 psi / 24 bar

Max Inlet Pressure: 400 psi / 27.5 bar

Inflation Flow: 500 l/min / 18cfm @ 190psi / 13bar

Overpressure warning – display shows "- - - - -"

## PART NO.

## DESCRIPTION

DAC6A01

ACCURA 6 Aviation Tyre Inflator 0-350 psi

## HOSES

2 x 2M 4G1 hoses with 8V1 & 12V1 screw-on connectors

# HIGH PRESSURE ACCURA® DAC5 DIGITAL HANDHELD AIRCRAFT TYRE INFLATOR

The ACCURA 5 from PCL offers the lightest and fastest inflation and deflation rates in a robust plastic housing.

This product features brass inlet and outlet valves, metal internal fittings and strong engineering plastics to cope with both the high pressure and the high usage environments seen in line and base maintenance.

The unit can inflate using Nitrogen, air or other gases from 0 to 319 psi. Capable of precise measurement with tolerances within industry standards. The ACCURA 5 enables the operator to provide accurate tyre pressures rapidly time after time with the clear digital readout and the direct valve design.



## KEY FEATURES

- 
- Ceramic sensor
- 
- Clear and easy to read digital display
- 
- Modern, lightweight and shock resistant construction
- 
- Brass inlet and outlet valves
- 
- Proprietary software increasing accuracy, fine metering and eliminating the chance of false readings
- 
- Direct valve inflation and deflation rates
- 
- Safety relief valve - Prevents over inflation or sudden over-pressurising of the gauge
- 
- Supplied with calibration certificate
- 
- Built in swivel and hanging device
- 
- Low battery warning indicator
- 
- Supplied with twin 8v and 12v connectors and hydraulic resistant hose
- 

## KEY BENEFITS

- 
- Reduced usage times - driven by the simplicity of use and clear display
- 
- Reduced operating costs - fast inflation and deflation rates
- 
- Increased service - high levels of speed, accuracy and safety
- 
- Reduced cost of ownership - long product life
- 
- Guaranteed accuracy - individual testing
- 

## SPECIFICATION

Reading Accuracy	1 psi
Inflation Range	0-319 psi
Max Inlet Pressure	350 psi
Maximum Inflation Flow	1750 l/min @ 350 psi
Compliance	CE

PART NO.	DESCRIPTION
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DAC5A01	ACCURA 5 Aviation Tyre Inflator 3-319 psi
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## HOSES

2 x 2m 4G1 hoses with 8V1 & 12V1 screw-on connectors

# HIGH PRESSURE ACCURA® D10 FIXED DIGITAL TYRE INFLATOR

Designed specifically for the Aviation industry, the ACCURA 10 Aviation model incorporates all the benefits of PCL's market leading ACCURA range of products with an added high pressure facility, capable of inflating up to 22 bar / 320 psi / 2208 kPa. Suitable for use with both air and Nitrogen.



## KEY FEATURES

- 
- Electronic pressure pre-set
- 
- Clear display for easy customer usage
- 
- Default to safe-setting
- 
- Robust, high reliability and modern design with die-cast aluminium housing
- 
- Ceramic sensor - accuracy to +/-0.5% of full scale reading
- 
- Attractive and durable membrane with customisable graphics
- 
- Can inflate accurately with hoses up to 50m
- 
- Comprehensive diagnostics and error reporting
- 
- Guaranteed accuracy with individual testing
- 

## SPECIFICATION

- 
- Reading Accuracy: 0.1 bar / 1 psi / 5 kPa / 0.1 kg/cm<sup>2</sup>
- 
- Inflation Range: 4 - 320 psi / 0.3 - 22 bar
- 
- Compliance: CE
- 

## KEY BENEFITS

- 
- Consistent cost effective provision of high levels of safe inflation services
- 
- Low life time costs - long product life with robust design and proven electronics
- 
- Low and simple maintenance with excellent diagnostics
- 
- Customisation to meet individual needs and applications
- 
- Guaranteed accuracy with individual testing
- 
- 
- 
- 

## PART NO.

## DESCRIPTION

## TYRE CONNECTION

D10	ACCURA D10 Aviation Tyre Inflator 4 - 320 psi	No hoses - Available separately
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# ACCURA® D60 OEM PRESSURE CONTROL BOX

Customisable digital inflation control box for use with existing inflation equipment such as Nitrogen trolleys. Available with all the same features as the ACCURA D10.

Please enquire for details of options available.





# HIGH PRESSURE AIRFORCE® AFG64 ANALOGUE HANDHELD AIRCRAFT CHECK GAUGE



This twin headed gauge has outputs for small helicopter tyre valves and large bore commercial aircraft tyres. This metal bodied gauge is a very robust yet lightweight product with a calibration of 45 - 300 psi offering guaranteed accuracy.

The magnified linear scale is easy to read, whilst the attractive slim line design with ergonomic warm rubber bumper provides comfort in use.



## KEY FEATURES

- Twin head 8V1 and 12V1 tyre valve connection for small and large bore aircraft tyre valves
- Cast aluminium body
- Proven linear spring gauge
- Magnified clear linear gauge display
- Individual testing, supplied with Calibration Certificate

## SPECIFICATION

- Reading Accuracy: 0- 25 bar/5 psi
- Max Inlet Pressure: 362.5 psi

## KEY BENEFITS

- Reduced operating costs with instant pressure checking
- Long life – excellent shock resistance with robust durable design and construction
- High versatility – suitable for indoor and outdoor environments
- Guaranteed accuracy – individual testing

## PART NO.

AFG64

## DESCRIPTION

Analogue Aviation Tyre Check Gauge 45-300 psi

## CONNECTION

Twin head 12V1 and 8V1 output



# HIGH PRESSURE ACCURA® DAC64 DIGITAL HANDHELD AIRCRAFT CHECK GAUGE

This premium indoor and outdoor electronic gauge is set to revolutionise the aircraft industry offering features and performance in all the key demands of discerning aircraft service personnel – robustness, lightweight, accuracy, safety and versatility with a backlit LCD screen for ease of use in all light conditions. This digital check gauge comes with 0.5m of 4G1 hydraulic oil resistant hose with quick change 8v1 and 12v1 in-line hold-on connectors to suit all aviation applications.



## KEY FEATURES

Extremely robust aluminium body, virtually indestructible polycarbonate screen and protective rubber bumper

Backlit LCD screen

Supplied with 2 in-line hold-on tyre connectors

Serialised and supplied with calibration certificate and declaration of conformity

Replaceable 2 X AAA batteries power unit (supplied)

Registered Design

## SPECIFICATION

Operating Temperature: -15°C to 55°C / 5°F - 131°F

Reading Accuracy: 0.1 psi / 0.01 bar

Accuracy: +/- 2psi up to 350 psi

Reading Resolution: psi  
0 to 199.5 psi = 0.5 psi, 200 psi and above = 1 psi

Low battery warning – appears on the screen

## KEY BENEFITS

Long, accurate life expectancy

Clear pressure readings at night and in dark aircraft hangars

Flexibility to quick change between 8v and 12v tyre valves

Complete piece of mind for accuracy and traceability

Battery Life: In normal working environment over 400 working hours

Storage Temperature: -30°C to 80°C / -22°F - 176°F

Max Inflation: 350 psi / 24 bar

Compliant with: BS EN12645:2014

Reading Resolution: bar  
0 to 19.95 bar = 0.05 bar, 20 bar and above = 0.1 bar

Autostart with LCD check on every “wake-up”

PART NO.	DESCRIPTION	TYRE CONNECTION
DAC64A	Digital Aviation Tyre Check Gauge 0-350 psi	1 x 0.5m 4G1 hose with interchangeable 8V1 & 12V1 in-line connectors

# HIGH PRESSURE ACCURA<sup>®</sup> DAC54 DIGITAL HANDHELD AIRCRAFT CHECK GAUGE KIT

The DAC54 high pressure check gauge kit is ideal for high pressure applications including Aviation. This takes PCL's market-leading digital tyre inflator, building on its worldwide reputation for fast, accurate and trouble-free inflation to the next level.

The gauge includes features such as metal inlet and outlet valves, metal internal fittings and strong engineering plastics to cope with both the high pressure and the high usage environments seen in line and base maintenance activities.



## KEY FEATURES

- 
- Ceramic sensor
- 
- Built in metal components and engineered plastics to withstand high pressure
- 
- Clear and easy to read digital display
- 
- Modern, lightweight and shock resistant construction
- 
- Brass outlet valve with safety blow off valve
- 
- Proprietary software increasing accuracy, fine metering and eliminating the chance of false readings
- 
- Supplied with calibration certificate
- 
- Built in swivel and hanging device
- 
- Low battery warning indicator
- 
- 8v and 12v connectors available
- 
- 
- 

## KEY BENEFITS

- 
- Suitable for High Pressure environments such as Aviation
- 
- The ease of use and clear display reduces usage times
- 
- Reduced operating costs - fast inflation and deflation rates
- 
- Increased service - high levels of speed, accuracy and safety
- 
- Reduced cost of ownership - long product life
- 
- High versatility - flexible usage
- 
- Guaranteed accuracy - individual testing
- 

## SPECIFICATION

Reading Accuracy	1 psi
Inflation Range	0-319 psi
Max Inlet Pressure	350 psi
Maximum Inflation Flow	1750 l/min @ 350 psi
Compliance	CE

PART NO.	DESCRIPTION	TYRE CONNECTION
DAC54A	Digital Aviation Tyre Check Gauge 0-350 psi	1 x 0.5m 4G1 hose with interchangeable 8V1 & 12V1 in-line connectors

## Replacement Aircraft Gauge Hoses

PART NO.	HOSE LENGTH	TYRE VALVE CONNECTION
RHA2134	2m Hydraulic oil resistant hose	8V1 screw-on
RHA2135	2m Hydraulic oil resistant hose	12V1 screw-on
RHA2136	2m Hydraulic oil resistant hose	8V1 single clip-on
RHA2152	2m Hydraulic oil resistant hose	12V1 single clip-on



## Replacement Tyre Valve Connectors

PART NO.	TYRE VALVE CONNECTION	VALVE STYLE	INLET SIZE
CO9H03	Screw-on connector	8V1 screw-on open end	6.35mm (1/4")
CO9P03	Screw-on connector	8V1 screw-on open end	Rp 1/4
CO10H03	Screw-on connector	12V1 screw-on open end	6.35mm (1/4")
CO10P03	Screw-on connector	12V1 screw-on open end	Rp 1/4
CO12A03	In-line hold-on connector	8V1 in-line hold-on open end	Rp 1/4
CO11A03	In-line hold-on connector	12V1 in-line hold-on open end	Rp 1/4



## Service & Recalibration

PART NO.	DESCRIPTION
RPR1H01	Basic gauge recalibration
RPR16	Complete service and recalibration



All orders are subject to our standard terms and conditions – available on request. In line with our continuous improvement programme, we reserve the right to amend or revise the specification of our products without prior notice. Published January 2019. E. & O.E.

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