Aviation Tyre Inflation & Pressure Checking Equipment
PCL is now celebrating 80 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.

The PCL heritage
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 site 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

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www.pclairtechnology.com
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

**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

**PART NO.** | **DESCRIPTION**
--- | ---
AFG6A01 | Analogue Aviation Tyre Inflator 45-300 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
- Max Inlet Pressure: 362.5 psi
- Inflation Flow: 500 l/min @ 13 bar supply

**HOSES**
- 2 x 2M 4G1 hoses with 8V1 & 12V1 screw-on connectors
TYRE INFLATION PRODUCTS

HIGH PRESSURE ACCURA® 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

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

SPECIFICATION

- Operating Temperature: -15°C to 55°C / 5°F - 131°F
- Storage Temperature: -30°C to 80°C / -22°F - 176°F
- Reading Accuracy: 0.1 psi / 0.01 bar
- Accuracy: +/- 2psi up to 350 psi
- Max Inflation: 350 psi / 24 bar
- Max Inlet Pressure: 400 psi / 27.5 bar
- Compliance with: BS EN12645:2014
- Inflation Flow: 500 l/min / 18cfm @ 190psi / 13bar
- Low battery warning – appears on the screen
- Overpressure warning – display shows “- - - - -”
- Autostart with LCD check on every “wake-up”

PART NO. | DESCRIPTION | HOSES
--- | --- | ---
DAC6A01 | ACCURA 6 Aviation Tyre Inflator 0-350 psi | 2 x 2M 4G1 hoses with 8V1 & 12V1 screw-on connectors
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.
**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/cm²
- Inflation Range: 4 – 320 psi / 0.3 – 22 bar
- Compliance: CE

**PART NO.**
- D60

**DESCRIPTION**
- OEM Pressure Control Box

**TYRE CONNECTION**
- No hoses - Available separately

**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

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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

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

SPECIFICATION
- Reading Accuracy: 0 - 25 bar/5 psi
- Reading Range: 45-300 psi
- Max Inlet Pressure: 362.5 psi

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>DESCRIPTION</th>
<th>CONNECTION</th>
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<tbody>
<tr>
<td>AFG64</td>
<td>Analogue Aviation Tyre Check Gauge 45-300 psi</td>
<td>Twin head 12V1 and 8V1 output</td>
</tr>
</tbody>
</table>
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

### 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

### SPECIFICATION
- Operating Temperature: -15°C to 55°C / 5°F - 131°F
- Storage Temperature: -30°C to 80°C / -22°F - 176°F
- Reading Accuracy: 0.1 psi / 0.01 bar
- Max Inflation: 350 psi / 24 bar
- Accuracy: +/- 2psi up to 350 psi
- Compliant with: BS EN12645:2014
- Reading Resolution: psi
- 0 to 199.5 psi = 0.5 psi, 200 psi and above = 1 psi
- Reading Resolution: bar
- 0 to 19.95 bar = 0.05 bar, 20 bar and above = 0.1 bar
- Low battery warning - appears on the screen
- Autostart with LCD check on every “wake-up”

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

www.pclairtechnology.com
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
- 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.**
DAC54A

**DESCRIPTION**
Digital Aviation Tyre Check Gauge 0-350 psi

**TYRE CONNECTION**
1 x 0.5m 4G1 hose with interchangeable 8V1 & 12V1 in-line connectors

www pclairtechnology com
## Replacement Aircraft Gauge Hoses

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>HOSE LENGTH</th>
<th>TYRE VALVE CONNECTION</th>
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<tbody>
<tr>
<td>RHA2134</td>
<td>2m</td>
<td>8V1 screw-on</td>
</tr>
<tr>
<td>RHA2135</td>
<td>2m</td>
<td>12V1 screw-on</td>
</tr>
<tr>
<td>RHA2136</td>
<td>2m</td>
<td>8V1 single clip-on</td>
</tr>
<tr>
<td>RHA2152</td>
<td>2m</td>
<td>12V1 single clip-on</td>
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## Replacement Tyre Valve Connectors

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>TYRE VALVE CONNECTION</th>
<th>VALVE STYLE</th>
<th>INLET SIZE</th>
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<tbody>
<tr>
<td>CO9H03</td>
<td>Screw-on connector</td>
<td>8V1 screw-on open end</td>
<td>6.35mm (1/4&quot;)</td>
</tr>
<tr>
<td>CO9P03</td>
<td>Screw-on connector</td>
<td>8V1 screw-on open end</td>
<td>Rp 1/4</td>
</tr>
<tr>
<td>CO10H03</td>
<td>Screw-on connector</td>
<td>12V1 screw-on open end</td>
<td>6.35mm (1/4&quot;)</td>
</tr>
<tr>
<td>CO10P03</td>
<td>Screw-on connector</td>
<td>12V1 screw-on open end</td>
<td>Rp 1/4</td>
</tr>
<tr>
<td>CO12A03</td>
<td>In-line hold-on connector</td>
<td>8V1 in-line hold-on open end</td>
<td>Rp 1/4</td>
</tr>
<tr>
<td>CO11A03</td>
<td>In-line hold-on connector</td>
<td>12V1 in-line hold-on open end</td>
<td></td>
</tr>
</tbody>
</table>

## Service & Recalibration

<table>
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<th>PART NO.</th>
<th>DESCRIPTION</th>
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<tr>
<td>RPR1H01</td>
<td>Basic gauge recalibration</td>
</tr>
<tr>
<td>RPR16</td>
<td>Complete service and recalibration</td>
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