PRODUCTS FOR TEST, MEASUREMENT & CALIBRATION
King Nutronics Corporation designs and builds rugged, reliable, high-performance test equipment to support the defense, aerospace, space launch, pharmaceutical, petrochemical, and utility industries. Our products are proudly made in the USA and cover measurement disciplines including pressure, temperature, air data, torque, force, and rotational speed. Every product is designed to be highly accurate, durable, simple to use, and easy to maintain.

King Nutronics is committed to putting customers first with exceptional, high-quality equipment paired with friendly, responsive customer support. All systems are fully supported with calibration, repair, upgrade, and customization services. Our manufacturing facility and calibration laboratory are accredited to ISO 9001:2015 and ISO/IEC 17025:2005 standards.

King Nutronics is a proud member of ANAB and DNV-GL.
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PORTABLE LIVE PRESSURE TESTER

The Model 3112 is a compact, self-contained system designed for calibrating and testing pressure gauges, transducers, pressure switches, and other pressure-sensitive instruments. Two gauges controlled by an automatic transfer valve permit precise stepless measurements over the entire range of the system. Requiring no external power, the Model 3112 Portable Live Pressure Tester features an internal gas cylinder that allows for multiple calibrations between charging, and is ideal for locations where space is limited. The system is housed in a weatherproof aluminum carrying case.

**NOTABLE FEATURES:**
- Custom pressure ranges available
- Internal gas cylinder
- Circuit tester included

**MODEL 3112**
- **RANGE:** 0 to 2,000 PSI
- **ACCURACY:** ±0.25% of full scale
- **DIMENSIONS (WxHxD):** 16” x 8” x 9”
- **WEIGHT:** 22lbs / 10kg
- **Rugged aluminum carrying case**
- **Test hose included**
- **High-pressure gauge**
- **Electrical test circuit for pressure switch testing**

PORTABLE GAUGE TESTER

The Model 3540 is a compact, self-contained unit designed for calibrating and testing pressure gauges, transducers, pressure switches, and other pressure-sensitive instruments at very high accuracy. The temperature-compensated Heise® pressure gauges are easy to read with mirrored scales for accurate reading and a 32” linear scale length for high resolution. The Model 3540 Portable Gauge Tester features two internal gas cylinders, allowing for multiple calibrations between charging. Its simple operator interface allows for ease of use, and is ideal for locations where space is limited. Built-in safety features protect the operator and equipment in the event of over-pressurization.

**NOTABLE FEATURES:**
- Custom pressure ranges available
- 2 Internal gas cylinders
- Automatic pressure gauge switching

**MODEL 3540**
- **RANGE:** 0 to 2,000 PSI
- **ACCURACY:** ±0.1% of full scale
- **DIMENSIONS (WxHxD):** 18” x 12” x 11”
- **WEIGHT:** 36lbs / 16kg
- **Precision vent valve for high accuracy adjustments**
- **Aluminium carrying case with removable lid**
- **Low-pressure Heise® instrument gauge**
- **High-pressure Heise® instrument gauge**
**PORTABLE PNEUMATIC AMPLIFIER**

The Model 3194F Portable Pneumatic Amplifier is a rugged benchtop system used for boosting standard gas pressures up to 10,000 PSI without the need of messy hydraulic fluids. An internal 10:1 pressure intensifier boosts input pressure up to 10,000 PSI pneumatic. Vernier control allows for precise pressure adjustments to desired test points.

**NOTABLE FEATURES:**
- Precise Vernier control
- Burst pressure 40,000 PSI

**DIMENSIONS (WxHxD):**
21” x 8” x 13”
53 x 20 x 33cm

**WEIGHT:**
52lbs / 24kg

---

**PORTABLE CALIBRATION SYSTEM**

The original portable, pneumatic secondary pressure standard, the Model 3461 is widely used for on-site pressure calibrations. Provided with 0.1% accurate Heise® reference gauges, the system is used to test and calibrate pressure transmitters, transducers, switches, and gauges. Vernier control allows for precise pressure adjustments to desired test points.

**NOTABLE FEATURES:**
- Internal gas cylinder
- No external power required
- Oxygen clean option available

**DIMENSIONS (WxHxD):**
Control unit
14.5” x 12” x 16”
37 x 30 x 41cm
Cylinder
7” Ø x 28” H
18cm Ø x 71cm H
Gauge and accessories case
19” x 13” x 18”
48 x 33 x 46cm

**WEIGHT:**
Control unit
50lbs / 23kg

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*Metric option available*
**TIRE GAUGE TESTER**

The Model 3566 Tire Gauge Tester is ideal for testing piston-actuated pneumatic pressure gauges used on aircraft tires, landing gear struts, and accumulators. It uses a 6” diameter pressure gauge for easy reading, and shuts off automatically if the pressure exceeds 10% of the maximum pressure range. The integral 140 cubic inch accumulator provides the volume of a simulated tire and allows for “inflating” of the simulated tire to multiple setpoints.

- Designed for field use
- Adjustable gauge saver

**TIRE GAUGE CALIBRATOR**

Designed to test piston-actuated gauges, inflator assemblies, and inflator assembly gauge elements in two basic ranges, 10 to 150 PSI and 50 to 606 PSI, the Model 3665 Tire Gauge Calibrator operates from an external source of dry nitrogen or clean, dry air. Mounted in the cabinet is an internal plenum chamber with a volume of 172 cubic inches, which provides the volume of a simulated tire and allows for “inflating” of the simulated tire to multiple set points.

- Low and high pressure ranges
- Regulator protects instruments from over-pressurization

**NOTABLE FEATURES:**

**MODEL 3566**

- Range: 0 to 600 PSI
- Accuracy: ±0.25% of full scale
- Dimensions (WxHxD): 14” x 24” x 14”
- Weight: 25lbs / 11kg

**MODEL 3665**

- Range: 0 to 606 PSI
- Accuracy: ±0.25% of full scale
- Dimensions (WxHxD): 19” x 19.5” x 22”
- Weight: 56lbs / 25kg
AUTOMATIC PRESSURE CALIBRATION SYSTEM

The Model 3666 Automatic Pressure Calibration System can generate and control pressures from 25 in-Hg vacuum up to 10,000 PSI. The system will automatically reach user-entered test points utilizing the system’s external pressure intensifier to boost standard gas pressures up to 10,000 PSI. The complete system includes a control unit, a pressure intensifier, a nitrogen supply cylinder, and an accessory case with numerous adapters and test hoses to ensure connections can be made with a variety of test instruments. Contamination-preventing fluid separators and a liquid trap keep the system’s highly accurate transducers free of outside media. Calibration results can be printed using the integrated printer.

NOTABLE FEATURES:
- Programmable gauge calibration
- Handheld remote included

MODEL 3666

RANGE
Vacuum to 25 in-Hg
Pressure 0 to 10,000 PSI

ACCURACY
Vacuum ±0.1% IV
Pressure typical ±0.1% IV

DIMENSIONS (WxHxD)
Control unit
18” x 12” x 11”
46 x 30 x 28cm

WEIGHT
Control unit
45lbs / 20kg

Digital display with 5 digit value reading
Fine adjustment control for precise pressure
Easy to use operator interface

PRECISION PRESSURE STANDARD

Found in calibration labs worldwide, the Model 3689A Precision Pressure Standard is a stand-alone reference standard with a wide operating range of 30 in-Hg vacuum to 10,000 PSI. The system’s auto-ranging capability allows for stepless readings throughout the pressure range in a multitude of engineering units including PSI, in-Hg, kPa, bar, in-H₂O, and ft/seawater. Utilizing the IEEE-488/GPIB interface, the system can be used to automatically standardize and calibrate well-known secondary pressure standards including the Model 3666. Calibration results can be printed using the integrated printer.

NOTABLE FEATURES:
- Liquid trap included for contamination prevention
- Accuracy increased at 1 to 4 PSI

MODEL 3689A

RANGE
Vacuum 0 to 30 in-Hg
Pressure 0 to 10,000 PSI

ACCURACY
Vacuum ±0.025% IV
Pressure typical ±0.025% IV

DIMENSIONS (WxHxD)
Control unit
18” x 12” x 11”
46 x 30 x 28cm

WEIGHT
35lbs / 16kg

Onboard printer
Easy to read operator interface

Onboard printer

Fine adjustment control

For precise pressure

Easy to use operator interface
HYDRAULIC PRESSURE CALIBRATOR KIT

The Model 3712 Hydraulic Pressure Calibrator Kit is a portable, self-contained system ideal for on-site testing and calibration of hydraulic pressure instruments. Featuring a dual-diameter pump piston, a selector valve allows the user to generate pressures from 0–1,000 PSI at high volume and from 0–10,000 PSI at low volume. A vacuum pump allows the operator to vacuum backfill the test circuit with the desired hydraulic calibrating fluid. All internal seals are configurable to ensure compatibility with a wide variety of fluids including isopropyl alcohol, distilled water, Skydrol®, sebacate, and more. For instances when the test item contains a different fluid than the 3712 hand pump, fluid separators serve as a physical barrier between the two fluids. The Model 3712 kit configurations are customizable to include all accessories, test hoses, and adapters required by the user.

NOTABLE FEATURES:
- Skydrol configuration available
- High volume and low volume modes in one pump

Shown:
- Gauge kit with 8 pressure gauges
- Vacuum pump kit with hoses and fluid containers
- Accessories kit with 3 fluid separators, hoses, fluid supply bottles, and fittings kit
- Hand pump configured with 10,000 PSI quick-disconnect fittings and Vernier control
**MODEL 3750**

**PRESSURE/VACUUM CALIBRATION KIT**

The Model 3750 is a self-contained pressure/vacuum calibration kit used for checking and calibrating gauges, sensors, and pressure switching devices. Requiring no external power or pressure source, its compact and rugged design is ideal where space is limited. Features include stainless steel and advanced corrosion protection on all wetted components, impact-resistant controls, and wear-resistant seals and control surfaces. Typical applications include plant maintenance, manufacturing, marine, pharmaceutical, and oil and gas. Calibration is achieved by comparing the device under test with a connected reference pressure gauge.

**NOTABLE FEATURES:**
- Pneumatic and hydraulic pressure generation from one pump
- Optional configurations available
- Dual piston volume adjuster
- 140° rotating pump head
- Fluid reservoir for hydraulic pressure testing
- Quick disconnect socket assembly
- Quick twist mode selector valve
- Bleed valve with bubble-tight control and no-crush knob clutch
- Fluid trap
- Pressure test hoses

**RANGE**
- Vacuum 28.5 in-Hg Δ
- Pressure 0 to 10,000 PSI

**ACCURACY**
0.1% of IV

**DIMENSIONS (WxHxD)**
- Hand pump 13" x 8" x 5" (33 x 20 x 13cm)

**WEIGHT**
- Hand pump 2.9lbs / 1.32kg

**STORAGE AND TRANSPORTATION OPTIONS:**
- Large soft cover backpack*
- Heavy duty Pelican™ shipping case
- Small soft cover carry bag

**25-MONTH WARRANTY**

**BACKUP KIT INCLUDES:**
- Patented rugged hand pump with neckstrap
- Hydraulic reservoir
- 4 precision reference gauges
- Accessories kit
- Fluid trap
- Pressure test hoses
- Soft cover backpack with easy-access pouches, carrying handles, and ergonomic shoulder straps

*Metric ranges selectable
PORTABLE TEMPERATURE CALIBRATORS

Models 3603A, 3604A, and 3605A Portable Temperature Calibrators are highly accurate dry well temperature standards designed for testing and calibrating thermometers, temperature sensors, thermocouples, RTDs, and temperature switches. The dry well design and precision adapter chucks eliminate the need for messy thermal transfer oils, while maintaining accuracy and temperature stability.

These calibrators are suitable for applications where harsh environmental conditions exist. The three versions cover the temperature ranges most frequently encountered in field and laboratory settings.

NOTABLE FEATURES:
- Additional adapter chucks sizes available
- Models 3604A and 3605A: Integrated printer
- Models 3604A and 3605A: IEEE-488/GPIB communication

MODEL 3605A
LOW TEMP
- RANGE: -40°F to 250°F
  -40°C to 121°C
- ACCURACY: ±0.5°F throughout range
- DIMENSIONS (WxHxD): 18" x 11" x 14"
  46 x 28 x 36cm
- WEIGHT: 44lbs / 20kg

MODEL 3603A
HIGH TEMP
- RANGE: 100°F to 600°F
  38°C to 315°C
- ACCURACY: ±0.5°F throughout range
- DIMENSIONS (WxHxD): 11" x 7" x 10"
  28 x 18 x 25cm
- WEIGHT: 12.5lbs / 6kg

MODEL 3604A
HIGH TEMP
- RANGE: 100°F to 1,200°F
  38°C to 649°C
- ACCURACY: ±0.8°F 100°F to 600°F
  ±0.15°F 600°F to 1,200°F
- DIMENSIONS (WxHxD): 18" x 11" x 14"
  46 x 28 x 36cm
- WEIGHT: 44lbs / 20kg

*°F/°C Units selectable
**AIR DATA TEST SET**

The Model 3719 Air Data Test Set is used for the repair and calibration of critical flight instruments, such as altimeters, airspeed indicators, rate of climb indicators, and other avionics instruments. With multifunction capability and automatic protection of the device under test, the Model 3719 can also be used to calibrate low pressure sensors and barometric instruments. The Model 3719 has high accuracy specifications consistent with commercial aviation RVSM requirements.

**AIR DATA CALIBRATOR**

The Model 3688A Air Data Calibrator is a highly accurate laboratory standard that provides regulated static (Ps) and total (Pt) pressure/vacuum output for testing and calibrating aircraft altimeters, airspeed indicators, and rate-of-climb indicators. The user can select a variety of display units depending on the operational mode, including feet, meters, knots, km/h, Mach No, in-Hg, PSI, mm-Hg, in-H2O, and millibars. Calibration data can be printed using the integrated printer. The system includes a vacuum pump, pressure regulator kit, supply hoses, test hoses, and accessory kit.

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**MODEL 3719**

- **RANGE**
  - Ps 0.3 to 32 in-Hg
  - Pt 0.5 to 110 in-Hg

- **ACCURACY**
  - Ps ±0.002 in-Hg
  - Pt ±0.004 in-Hg

- **DIMENSIONS (WxHxD)**
  - 19” x 8.5” x 15” as shown
  - 48 x 21 x 38 cm

- **WEIGHT**
  - 33 lbs / 15 kg as shown

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**MODEL 3688A**

- **RANGE**
  - Ps 0.3 to 32 in-Hg
  - Pt 0.5 to 42 in-Hg

- **ACCURACY**
  - Ps ±0.002 in-Hg
  - Pt1 ±0.002 in-Hg
  - Pt2 ±0.004 in-Hg

- **DIMENSIONS (WxHxD)**
  - 21.5” x 12” x 15”
  - 55 x 30 x 38 cm

- **WEIGHT**
  - 65 lbs / 29 kg

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**NOTABLE FEATURES:**

- Rack mount, benchtop, and self-contained portable configurations available
- Integrated printer
- Conforms to RVSM accuracy requirements
- Integrated gauge calibration mode

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**NOTABLE FEATURES:**

- Units selectable
- Units selectable
**TACHOMETER TESTER**

The Model 3800 is a compact, lightweight tachometer tester designed specifically for calibrating and troubleshooting aircraft and helicopter tachometer indicators and generator alternator systems on the flight line and in the avionics repair shop. The system can be programmed for RPM or percentage and can be used to test tachometers as well as tachometer displays. Using an optional test fixture, the Model 3800 can also be used to test optical tachometers. Electrical configurations can be set up for Y or Δ load testing. Mechanical connections are made through a standard AND 20005 drive pad.

**NOTABLE FEATURES:**
- Can be used for tachometers and tachometer displays
- Optional optical tachometer kit
- Near silent operation

**MODEL 3800**

- **RANGE**
  - 1 to 6,500 RPM
- **ACCURACY**
  - ±0.02% of set point value
- **DIMENSIONS (WxHxD)**
  - 13.25” x 11.5” x 9”
  - 34 x 29 x 23 cm
- **WEIGHT**
  - 19 lbs / 9 kg

**PORTABLE TORQUE CALIBRATOR**

The Model 3714 is a PC-driven benchtop system designed to generate, control, measure, and display the rotational forces applied to torque measuring instruments, including wrenches, screwdrivers, T-handle drivers, and torque watches. Various data capture modes are selectable for different types of test items. Software-driven controls set test parameters and record test data, which can be saved or exported for further analysis. Accessory kit includes adapters to test a wide range of instruments.

**MODEL 3714**

- **RANGE**
  - 250 & 500 ft-lbs
- **ACCURACY**
  - ±0.5% IV
- **DIMENSIONS (WxHxD)**
  - 28” x 21” x 17” as shown
  - 71 x 53 x 43 cm
- **WEIGHT**
  - 88 lbs / 40 kg as shown

**NOTABLE FEATURES:**
- Create setup files for frequently used tests
- Full system includes standardization kit
VACUUM/LOW PRESSURE TEST CHAMBER

The Model 3681 is a unique pressure test chamber used for pressure device testing. Incorporating electrical and pressure feed-throughs, the test article can be powered and pressurized from an external source, while at the same time the operating environmental pressure can be controlled separately. Typical uses include depth gauge testing, leak testing, and acceptance testing. The chamber is constructed of heavy-gauge aluminum and is hermetically sealed. A large acrylic window in the test chamber permits convenient observation of the device under test. A relief valve automatically vents excess pressure to prevent unsafe conditions.

**NOTABLE FEATURES:**
- Interior chamber diameter measures 15.25” / 39cm
- Device protection from over-pressurization

MODEL 3681

- RANGE
  - 50 micron vacuum to 15 PSI
- DIMENSIONS (WxHxD)
  - 20” x 22” x 16”
  - 51 x 56 x 41cm
- WEIGHT
  - 50lbs / 23kg

SAFETY TEST CHAMBER

The Model 3510 is a benchtop safety test chamber designed for proof and burst testing small components, such as valves, pressure gauges, and transducers, up to 20,000 PSI. Simple controls, numerous passive and active safety features, and heavy 10-gauge welded steel construction make the Model 3510 ideal for the production line. The interior chamber measures 21” x 19” x 21” / 53 x 48 x 53cm.

**NOTABLE FEATURES:**
- Booster pump amplifies supply pressure 10:1
- Precision bleed and vent valves
- Oxygen clean option available

MODEL 3510

- RANGE
  - Max 20,000 PSI
- DIMENSIONS (WxHxD)
  - 24” x 28” x 32”
  - 61 x 71 x 81cm
- WEIGHT
  - 245lbs / 111kg
MODEL 3615

CABLE TENSION CALIBRATOR

The Model 3615 is designed for the testing and calibration of cable tension meters within a range of 5 to 2,400 pounds. The calibrator includes a bench-mounted loading system, a weight hanger, cable set, and 79.5 lb. class F calibrated weight set. The cable set includes 10 cables ranging from 1/16" to 3/8".

NOTABLE FEATURES:
- Class F calibrated weight set
- Acrylic safety shield

DIMENSIONS (LxHxD)
Tester assembly
91" x 11" x 8"
231 x 28 x 20cm

ACCURACY
0.5% of applied tension

WEIGHT
Pump case
35lbs / 16kg
Accessory case
14lbs / 8kg

MODEL 3646

INSTRUMENT CLEANING SYSTEM

The Model 3646 Instrument Cleaning System is a portable, self-contained maintenance system designed for cleaning pressure gauges, transducers, and other “dead end” instruments incorporating a Bourdon tube or similar sensing element. It can also be used for maintaining vacuum gauges. The cleaning process is driven by an electrically powered vacuum pump, which is used to evacuate and then fill the gauge-sensing element with a non-flammable solvent to flush away contaminants. The kit contains all the necessary equipment, including tube assemblies, fill and waste flasks, an adapter kit accommodating commonly used pneumatic fitting and thread sizes, silicone grease, and two sampling bottles.

NOTABLE FEATURES:
- Oxygen clean option available
- Cleans and dries instruments

DIMENSIONS (WxHxD)
12” x 12.5” x 11.5”
30 x 32 x 29cm

WEIGHT
Pump case
35lbs / 16kg
Accessory case
14lbs / 8kg

RANGE
5 to 2,400 lbs

ACCURACY
0.5% of applied tension

DIMENSIONS (LxHxD)
Tester assembly
91” x 11” x 8”
231 x 28 x 20cm
Our Fluid Separators provide the flexibility to calibrate hydraulic instruments using either gas or hydraulic pressure. The input can be connected to a gas pressure source or filled with hydraulic fluid. The output is filled with hydraulic fluid compatible with the device under test. Multiple diaphragm materials available.

The Liquid Trap is a contamination prevention accessory that protects precision calibration equipment from dirty or contaminated test items. An integrated valve allows for purging of trapped liquid contaminants. It is designed for use with pneumatic calibration equipment up to 10,000 PSI / 680 bar.

Our high pressure hoses are designed specifically for test circuits rated to 10,000 PSI. An internal stainless steel capillary tube provides superior stability for fast, accurate pressure readings.

The Gauge Stand consists of a stainless steel manifold used to support a gauge or device under test. The three ports are typically configured with supply pressure in one port, reference gauge in the second port, and the third port connected to the device under test. Custom configurations available.

**SUPERPRESSURE COMPONENTS**
- Designed for high-pressure connections up to 10,000 PSI
- Components are precision-machined and designed for maximum corrosion resistance
- All fittings and components are rated for a minimum burst pressure of 40,000 PSI

**VALVES**
- Metering Valve • Vent Valve • Check Valve • Vernier Valve

**ADAPTERS/FITTINGS**
- Male Pipe Thread • Female Pipe Thread • AN Adapter • AN Adapter
- Tubing • Reducer Bushing • Gland Nut • Coupling • Sleeve • Union
- Plug • Elbow • Plug Assembly • Tee • Cross • Bulkhead Coupling
- Bulkhead Connector • Nipple

**QUICK-DISCONNECTS AND PROBES**
- Quick-disconnect Coupling • Male Superpressure Probe • Female Superpressure Probe • Female Bulkhead Superpressure Probe
- Male Pipe Thread Probe • Female Pipe Thread Probe • AN Probe • Dust Plug • Probe Dust Cover
What is Oxygen Clean?
Instruments, systems, or components that demand high purity and cleanliness, or are used in oxygen rich environments, require special handling. To ensure your mission-critical instruments are clean and compliant, specify King Nutronics engineered Oxygen Clean products for your company.

Standard products with Oxygen Clean options include:
- **Model 3461 PORTABLE CALIBRATION SYSTEM**
- **Model 3646 INSTRUMENT CLEANING SYSTEM**

In addition to providing oxygen clean calibration solutions, we can provide cleaning certification to a variety of standards, including ASTM G93-03, MIL-STD 1622, and MIL-STD 1330, for fittings, gauges, hoses and smaller instruments and accessories listed in our standard product line. We can also help you to determine the best cleaning solvent and equipment for your application.

**USEFUL TERMS & DEFINITIONS**

**OXYGEN CLEANING:** Cleaning to remove combustible contaminants and particulates from the surface of any equipment that may be required to operate in a high purity environment.

**OXYGEN CLEANING SOLVENTS:** Specialized, non-flammable degreasing fluids used to remove contaminants from instrument surfaces. Solvents of this type do not leave behind residues which might react with oxygen or other flammable gasses.

**ASTM G93-03:** ASTM standard that defines the cleaning methods and cleanliness levels for materials and equipment used in oxygen rich environments. Based on US Military and NASA Specifications.

Reach us at sales@kingnutronics.com or call (818) 887-5460. Connect with us at www.kingnutronics.com or LinkedIn.