

# PRESSURE

## Instrumentation



Standards

Calibrators

Indicators

Controllers

Intensifiers

**CONDEC** 

Genuine Quality, Proven Performance

A DIVISION OF RICE LAKE WEIGHING SYSTEMS

[www.ricelake.com/condec](http://www.ricelake.com/condec)

888-295-8475



## UPC5000- PRESSURE CALIBRATION STANDARD

Designed for calibrating transmitters, transducers, gauges and other pressure sensitive devices onsite, the portable UPC5000 is rigidly constructed to provide precision performance in virtually any industrial environment. Encased in a lightweight carrying case with handles, it includes a self-contained nitrogen cylinder, rechargeable battery, and all controls, hoses and connections required for calibration. Completely pneumatic operation eliminates hydraulic fluid and distilled water messes. Our exclusive precision vernier allows you to dial in exact readings up to 2,000 psi. Choose from six models, each with three independent selectable ranges that provide 0.05% full scale accuracy of the selected range.

- Push-button calibration
- Portable or rack mounted models available
- Precision pressure vernier control
- Supplies DC loop power
- Gauge, absolute or gauge/absolute calibration
- Adjustable overpressure protection
- Voltage/current display mode for transducer testing
- Available with LED or LCD display

**NIST** - National Institute of Standard and Technology traceable certificates provided



## UPC5100/5200- PRESSURE CALIBRATION STANDARD

Both the UPC5100 and UPC5200 are completely portable and employ our exclusive precision vernier for accurate, onsite calibration. The UPC5100 is equipped with five switch-selectable measurement ranges for vacuum and low-pressure applications from 27 inches Hg vacuum to 100 psi. The UPC5200, with its built-in intensifier, is designed for special high-pressure applications up to 10,000 psi. It's available in two models that offer three selectable ranges that guarantee 0.05% full scale accuracy of the selected range.

- Portable or rack mounted models available
- Precision vernier control
- Quick-disconnect fitting and hose included
- Adjustable overpressure protection
- Voltage/current display mode for transducer testing
- Available with LED or LCD display

**NIST** - National Institute of Standard and Technology traceable certificates provided



## DLR334- DIGITAL PRESSURE INDICATOR/DLR3110- DIGITAL PRESSURE STANDARD

Loaded with high-accuracy features and a full range of options, the DLR334 excels in test stand, manufacturing and transfer standard applications. This cost-effective unit is designed for applications ranging from vacuum to 10,000 psi, and is available in tabletop, panel mount or our 19-inch rack mounted DLR3110. Overall accuracies available include 0.05% of reading, 0.1% of reading, or 0.25% of reading—all readings are 20% full scale and above. Ideal for custom applications, flexible operation is provided by features like min/max, peak hold and freeze modes, 20 selectable engineering units, and a variety of serial communication capabilities.

- Gauge or absolute
- Large, red LEDs
- Selectable resolution
- Min/max, peak hold freeze mode
- Tare feature on absolute models
- Tabletop, panel or rack mounted
- Optional relays and setpoints

**NIST** - National Institute of Standard and Technology traceable certificates provided





## UPS3000• DIGITAL PRESSURE INDICATOR/UPS3110• DIGITAL PRESSURE STANDARD

The UPS3000 provides tight control in manufacturing, testing or calibrating pressure sensitive devices. Features like push-button zero, selectable absolute or gauge calibration modes, and multi-conversion units offer versatility and convenience. It's available in a lightweight tabletop model that provides portability, or panel or rack-mounted configurations to fit a wide range of applications. Choose from 10 different models with three selectable ranges that provide 0.05% full scale accuracy of a selected range up to 30,000 psi.

- Gauge, absolute or gauge/absolute selectable
- Optional rechargeable battery
- Tabletop, panel or rack mount
- 10 selectable engineering units
- Durable 16-gauge mild steel case
- Optional min/max, peak hold and freeze mode

**NIST**• *National Institute of Standard and Technology traceable certificates provided*



## SOURCE 3000• PNEUMATIC PRESSURE SOURCE

A quick, accurate and portable pressure source, the Source 3000 is ideal for use with many Condec adapters and most industry manufactured digital gauges or handheld calibrators. Fully pneumatic, Source 3000 offers a clean, dry pressure source up to 3,000 psi. It's conveniently equipped with a large-capacity nitrogen cylinder and a supply gauge that informs operators of the cylinder's current pressure level. It also has an operator adjustable Condec REG 3000 regulator that protects units under test from damage by overshoot. A removable aluminum cover allows the Source 3000 to be positioned at different angles for easy operation in tight spaces.

- Self-contained nitrogen cylinder
- Optional hose kits and carrier
- Adapter fitting for charging internal nitrogen cylinder
- Two ports connect to unit under test and precision calibrator
- Works with all major manufacturers' pressure calibrator models
- Adjustable overpressure protection
- Precision pressure vernier control



## PIN7000/PIN8000• PNEUMATIC PRESSURE INTENSIFIER

Ideal for custom applications, either unit utilizes clean dry air or nitrogen to generate up to 10 times the input pressure for a maximum output pressure of up to 10,000 psi. Our exclusive micro-metering valve provides exact pressure adjustment and venting, while three gauges display regulated pressure, accumulated pressure and output pressure. PIN8000 also includes the patented Orion 3A with vernier adjustment and an additional output (test) port. By combining the PIN8000 with a Condec adapter and a handheld calibrator or a digital pressure gauge, you have a NIST traceable calibration standard. Both models are available in portable or rack-mounted configurations, and each model includes quick-disconnect fittings and hoses for rapid input and output pressure.

- Electronically controlled intensifier system
- Source for high pressure applications
- Portable tabletop or rack mounted
- Precision Condec REG 1000 regulator to adjust input/output pressure



## UVC1000• VACUUM GENERATOR/PRESSURE CONTROLLER

Completely mechanical, the UVC1000 is ideal for use in hazardous and explosive environments. It contains a built-in vacuum converter that works with existing shop air to provide up to 29 inches Hg vacuum, and can also be used to control and regulate positive pressure to 100 psi. It is lightweight and compact for quick and convenient operation in any environment.

- Electronically controlled intensifier system
- All mechanical design—no fumes or vibrations
- Portable tabletop or rack mounted



## MPV-10K• MICROMETERING VALVE

A component of our pressure calibration standards, the MPV-10K provides fingertip adjustment up to 10,000 psi in a variety of gas and fluid applications.



- Fine micro-metering valve with positive shut off
- Adjustable stop, soft seat—no over tightening
- Finger tip adjust—even at 10,000 psi
- Viton O-rings standard; other materials available by request
- Stainless steel
- Valve can be panel or bracket mounted

## ORION 2C/ORION 3A• PRECISION PNEUMATIC CASED CONTROLLERS

Ideal for use in testing environments, the Orion 2C and Orion 3A pneumatic pressure controllers provide unrivaled performance in a variety of industrial applications. Both the 2C and 3A utilize an exclusive precision vernier for an exact dial in to pressure settings. Models have a test port located on front as well as an input and vent port on back of unit. Cased versions also have an additional test port on the back for use with many Condec adapters and most industry manufactured digital gauges or handheld calibrators. 2C or 3A valve manifold assembly may be purchased separately for independent panel mounting.



- Precision patented vernier to precisely dial in a selected pressure
- Soft seat construction and adjustable stop—immune to over tightening
- Two test ports, based on version, allow for multiple applications
- System working pressure: Orion 2C, up to 3000 psi  
Orion 3A, up to 10,000 psi based on model
- Fingertip closed system pressure adjustment to better than 0.0005 psi

## CONDEC CYLINDER REGULATOR

Our cylinder regulator assembly (CYLREG) allows the operator to ensure a properly regulated pressure output from an existing in house nitrogen supply cylinder that has a maximum charge of 3,000 PSIG. Based on selected model, CYLREG has up to 3,000 PSIG operator controlled regulated output pressure. The CYLREG assembly has a Condec REG series pressure regulator with upstream (inlet) and downstream (outlet) pressure gauges.



- Same Condec REG series regulator as used in our portable pressure calibrators and Source 3000
- 1/4 inch 37 degree male output port connection
- Integral inlet filter used to promote long life when used in clean systems.
- CGA 580 fitting for direct connection to the in-house cylinder

# PRESSURE

## Instrumentation



Fittings, adapters, hoses  
and pressure traps available

### OPTIONS AND ACCESSORIES

From decades of field-proven performance, Condec products lead the industry in precision instrumentation for pressure measurement and control. To outfit Condec products for your specific application, Condec offers a variety of high-quality options and accessories including adapters, hoses and pressure traps.

### CALIBRATION SERVICES

All new units are shipped with National Institute of Standards and Technology (NIST) traceable certification at no additional charge. If written data points are required for new instruments, there will be an additional charge.

### RECALIBRATION/REPAIR

Condec is pleased to offer recalibration and repair services. Please consult Condec for standard calibration pricing. Written data points are also available. We perform an initial electrical/mechanical evaluation and submit a quotation on all instruments we receive before performing the recalibration/repair. Advance not to exceed pricing may also be provided. Initial evaluation fee will be placed toward the cost of recalibration and/or repair. You would only be charged the evaluation fee if you decide to not have the work completed.

### CONTACT CONDEC

To place an order or to speak with technical service, please call us at 888-295-8475. You may also place an order through our 24-hour fax number at 715-234-6967.



High-quality products designed, manufactured and distributed by Condec include pressure indicators, handheld pressure calibrators, digital pressure calibration standards, pressure intensifiers, mechanical pressure controllers, a portable pressure source, digital pressure gauges, regulators and industrial weighing equipment.

Our commitment to provide our customers industry-leading products is enhanced by 100% guaranteed customer service and support.

## [www.ricelake.com/condec](http://www.ricelake.com/condec)

Our website makes accessing Condec product information easier for you. It contains features that allow you to download catalog pages, request free literature, or email technical questions at your convenience, 24 hours a day. All product specifications are available in PDF file formats so you can immediately view the information you need, download it to your PC, or print.





# SPECIFICATIONS



Display instant pressure readings from distances of up to 240 feet with the SURVIVOR® LaserLight® remote display!

	UPC5000	UPC5100	UPC5200
<b>Accuracy*</b>	±0.05% F.S. max of each range	±0.05% F.S. max of each range	±0.05% F.S. max of each range
<b>F.S. Ranges</b>	3 IND ranges, six sets to 2,000 psi	±30 inHg, ±100 kPa, ±400 inH <sub>2</sub> O, 100 psi, 2700 inH <sub>2</sub> O	10K/5K/2K psi or 5K/2.5K/1K psi
<b>Pressure Calibrations</b>	Gauge, absolute and gauge/absolute selectable	Gauge, absolute and gauge/absolute selectable	Gauge
<b>Pressure Hoses</b>	5 ft nominal test hose & fill hose	5 ft nominal test hose & fill hose	4 ft nominal test hose & fill hose
<b>Operating Temperature</b>	40°F to 122°F	40°F to 122°F	40°F to 122°F
<b>Pressure Media</b>	Dry nitrogen, standard	Dry nitrogen, standard	Dry nitrogen, standard
<b>**Pressure Cylinder</b>	Capacity: 7.0 cu ft nominal Volume: 80 cu in minimum Rating: 2215psi minimum	Capacity: 7.0 cu ft nominal Volume: 80 cu in minimum Rating: 2215psi minimum	Capacity: 88 cu ft nominal Volume: 960 cu in minimum Rating: 2216psi minimum
<b>Overpress. Rupture Disc</b>	3000psig, stainless steel outer case	3000 psig, stainless steel outer case	3000 psig on input only
<b>Internal Piping</b>	Tubing, seamless	Tubing, seamless	Tubing, seamless
<b>Control Valves</b>	Micro-metering, positive shut off aluminum	Micro-metering, positive shut off aluminum	Micro-metering, positive shut off stainless steel
<b>Internal Pressure Sensor</b>	Stainless steel	Stainless steel	Stainless steel
<b>Weight/Case</b>	30lb nominal/aluminum	30 lb nominal/aluminum	52 lb nominal/deep drawn, aluminum
<b>Dimensions</b>	10in W x 16in L x 11.5in H	10in W x 16in L x 11.5in H	11 in W x 18in L x 11.5in H
<b>Display</b>	LED or LCD	LED or LCD	LED or LCD
<b>Power</b>	115 or 230VAC, with rechargeable internal, sealed lead acid battery	115 or 230VAC, with rechargeable internal, sealed lead acid battery	115 or 230 VAC

Source 3000 • 3000 psi Pneumatic Pressure Source	
<b>Internal Press. Cylinder:</b>	15.2 cubic foot
<b>Case:</b>	Aluminum
<b>Test Ports:</b>	(2) Two with quick disconnects
<b>Control Valves:</b>	Orion 2C, micro-metering, positive shutoff
<b>Rupture Disc:</b>	Stainless steel
<b>Piping:</b>	Stainless steel tubing, seamless
<b>Pressure Media:</b>	Clean dry nitrogen or equal
<b>Weight/Dimensions:</b>	25lb, 7.2in W x 18in L x 11.5in H

UPS3000/UPS3110 • Digital Pressure Indicator/Digital Pressure Standard	
<b>Accuracy*:</b>	±0.05% F.S. max each range
<b>Models:</b>	10 models available
<b>Multi-Conversion:</b>	psi, kPa, mmHg, BAR, mBAR, inHG, cm H <sub>2</sub> O, kg/cm <sup>2</sup> , inH <sub>2</sub> O, and % F.S. are included
<b>Mounting Styles:</b>	Rack, tabletop with optional panel mount adapter kit
<b>Weight/Dimensions:</b>	12lb nominal 10.8in W x 4.9in H x 9.9in L/19in W x 7in H x 9.1in D (274.5 x 125.2 x 251 mm)/(482.6 x 177.8 x 231.1 mm)
<b>Power:</b>	115 or 230VAC, ± 10%
<b>Display:</b>	LED

\*Accuracy statement includes all effects of linearity, hysteresis, repeatability and ambient temperature

\*\*Internal Cylinder — UPC5000 & UPC5100, External Cylinder — UPC5200

\*\*\*At input pressures less than 100psi, vacuum level may be less than 29in Hg

DLR 334/DLR 3110 • Digital Pressure Indicator/Standard	
<b>Overall Accuracy*:</b>	± 0.05% of reading accuracy ± 0.1% and 0.25% models available also
<b>Models:</b>	3 models available, rack mount, tabletop, tabletop with panel mount, 21 ranges
<b>Pressure Calibrations:</b>	Gauge or absolute
<b>Operating Temperature:</b>	40°F to 140°F
<b>Pressure Media:</b>	Compatible with stainless steel
<b>Resolution:</b>	Adjustable, 50,000 display counts
<b>Analog Output:</b>	0-10, 0-5, 1-6 VDC
<b>Weight/Dimensions:</b>	Panel Mt. DLR334: 4lb, 7.5in W x 3.75in H x 10.35in L Tabletop DLR334: 6lb, 8.5in W x 3in H x 10.5in L Rack Mt. DLR3110: 19lb, 19in W x 7in H x 9in L
<b>Power:</b>	115 or 230VAC
<b>Serial Output:</b>	RS-232, RS-422, RS-485
<b>Optional Output:</b>	0-10VDC and 4-20mA or parallel BCD
<b>Display:</b>	LED

UVC1000 • Vacuum Generator/Pressure Controller	
<b>Pressure Media:</b>	Filtered shop air
<b>Pressure Input***:</b>	100-150 psi, 4.2 SCFM, AN-4 37 degree flared tube fitting
<b>Pressure Regulator:</b>	Aluminum/brass pressure/vacuum selector
<b>Internal Tubing:</b>	250psi rated
<b>Weight/Dimensions:</b>	6.6lb/5.7in H x 8.1in W x 6.1in L

Your authorized distributor is:



230 W. Coleman St. • Rice Lake, WI 54868 • USA  
TEL: 715-234-9171 • FAX: 715-234-6967  
WEB: www.ricelake.com/condec • EMAIL: sales@4condec.com

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Specifications subject to change without notice