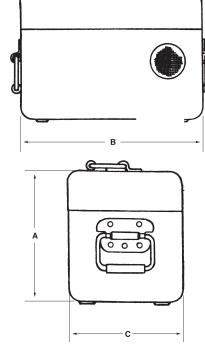
UPC5000/UPC5010 Pressure Calibration Standard



Cover provides convenient storage of hoses and fittings.





UPC5010 (not shown) dimensions—excluding front handles): 19 W x 8.1 D x 10.5 in. H (482.6 W x 205.74 D x 266.7 mm H) Rack-mount dimensions are for reference only. Consult factory for cutout dimensions.

UPC5000 OVERALL DIMENSIONS		
Α	11.5 in (292.10 mm)	
В	16.0 in (406.40 mm)	
С	10.0 in (254.00 mm)	

STANDARD FEATURES

- Available in self-contained enclosure with carrying handles (UPC5000) or 19 inch wide rackmountable version (UPC5010)
- Six sets of ranges to choose from: 2000/1000/400 psi, 1000/500/200 psi, 500/250/100 psi, 100/50/20 psi, 50/25/10 psi, and 15/7.5/3 psi
- Three independent selectable ranges in each instrument
- ±0.05% F.S. accuracy of each independent selectable range
- Available with Light Emitting Diode (LED) or Liquid Crystal Display (LCD)
- Pressure display resolution 0.02% F.S. typical for each range
- State-of-the-art push button calibration No analog potentiometers or adjustments required
- · Lightweight, less than 33 pounds

- · Adjustable overpressure protection
- · Precision pressure vernier control
- · Self-contained 2215 psi nitrogen cylinder
- Voltage/current display mode for transducer testing
- · Supplies DC loop power
- Non-destructible, finger tip control micrometering valves for pressure control
- · Quick-disconnect fitting and hose included
- Different technicians can calibrate the same Device-Under-Test and get identical results... every time
- Calibration Certificate included traceable to the National Institute of Standards and Technology (NIST)
- Pneumatic only no hydraulic fluid or distilled water messes

APPLICATIONS

- · Engine test
- Food processing
- · Pneumatic system checks

 Aircraft manufacturing, government laboratories, oil industry, electric power plants (nuclear and fossil), and general industry

SPECIFICATIONS

Available Calibration Modes:

Gauge, absolute or gauge and absolute

Overall accuracy:

±0.05% F.S. maximum. Accuracy statement includes all effects of linearity, hysteresis, repeatability and ambient temperature.

Power

115 or 230 VAC 50/60 Hz and 12 volt, rechargeable internal, sealed lead acid battery, standard

Temperature Range:

Operating: 40°F to 140°F (4°C to 60°C) Storage: 0°F to 185°F (-17°C to 85°C) Relative humidity: 95%, non-condensing

Pressure Media:

Clean dry gaseous nitrogen, standard

Internal Pressure Cylinder:

Capacity: 7.0 standard cubic feet Volume: 80 cubic inches Rating: 2215 psi

Pressure Supply Gauge:

Size: Two-inch diameter Range: 0-3000 psig

Overpressure Rupture Disc:

Rating: 3000 psig, nominal Material: Stainless steel outer case

Pressure Media Filter:

Rating: 7 microns, nominal Type: Field replaceable filter cartridge

Control Valves

Type: Micro-metering with positive shut off, adjustable stop and replaceable seat, non-destructible Material: Aluminum/stainless steel

Internal Piping:

Tubing: 1/8 in. 0.D., 0.028 in. wall thickness, copper, seamless

Couplings: Brass Swagelok®

Fill and Test Ports:

Style: Quick-disconnect type Fill Port Pressure Rating: 3000 psig connected, 2000 psig disconnected Test Port Pressure Rating: 5000 psig

Pressure Hoses:

Quantity supplied: Two; one input and one output Length: 5 feet, nominal

Vernier Control:

Volume: 0.25 cubic inches Vernier Mechanical Rotation: 16 turns, nominal Adjustable Sensitivity: 0.0005 psi, minimum Material: Aluminum/stainless steel

Pressure Limit Monitor Gauge:

Size: Two-inch diameter Range: As appropriate for UPC5000/UPC5010 model range utilized

Pressure Limit Control:

Pressure Rating: 3000 psig maximum (inlet) Output Pressure Range: As appropriate for UPC5000/ UPC5010 model range utilized

Construction: Self-relieving, single stage regulator

Internal Pressure Sensor:

Type: Bonded, metal foil strain gauge or equal Sensitivity: 3 mV/V, nominal Construction: Completely weld sealed stainless steel outer body and pressure cavity

UPC5000 External Carrying Case:

Type: Aluminum case with cover and carrying handle Material thickness: 0.090 in. nominal Finish: Grey polyurethane baked-enamel paint, textured finish

Current Display:

0-20.000 mA counting by 0.005 mA

Weight:

UPC5000: Less than 33 lb (14.9 kg) including all hoses and cables





UPC5000/UPC5010 Pressure Calibration Standard

MODEL/PRICE

MODEL	DESCRIPTION	EST. SHIP WEIGHT	PRICE
UPC5000	Portable Pressure Calibrator LED (NIST Traceable)	38 lb	Consult
UPC5000	Portable Pressure Calibrator LCD (NIST Treaceable)	38 lb	Consult
UPC5010	(19 in rack-mount version of UPC5000)	38 lb	Consult

UPC5000/UPC5010 Model Numbering Guide UPC5000/UPC5010 (_) (_) (A = 115 VAC, 50/60 Hz (UPC5010 only) B = 115 VAC, 50/60 Hz & internal rechargeable battery C = 230 VAC, 50/60 Hz (UPC5010 only) D = 230 VAC, 50/60 Hz & internal rechargeable battery RANGE-A = 2000/1000/400 psiB = 1000/500/200 psiC = 500/250/100 psiD = 100/50/20 psi* $E = 50/25/10 \text{ psi}^*$ $J = 15/7.5/3 \text{ psi}^*$ **CALIBRATION MODE-**A = Gauge only B = Absolute only C = Gauge or Absolute DISPLAY-A = Standard, Light Emitting Diode (LED) B = Liquid Crystal Display (LCD) **Determine model configuration before ordering Example: UPC5000BDAA = UPC5000 (B)**115 VAC 50/60 Hz & internal rechargeable battery, (D)100/50/20 psi, (A) gauge only, (A) LED

^{**} Available as gauge only unit



OPTIONS/ACCESSORIES

PART #	DESCRIPTION	PRICE
58483	Pressure trap (UPC5000/UPC5010) Literature sheet PN 58609	Consult
55354	Rechargeable battery kit	Consult
63256	Additional operating and maintenance manual	Consult
55294	Test port quick-disconnect male coupling body with 1/4 NPT female swivel (finger tighten to DUT, no tools required)	Consult
55394	Standard test port quick-disconnect fitting, male coupling body/female 1/4 NPT, 5000 psig working pressure (for mating between DUT, Hand-Held or Digital Gauge and UPC5000 or Source 3000 (PN 65315))	Consult
130239	Test port quick-disconnect fitting, male coupling body/female 1/8 NPT, 6500 psig working pressure (for mating between DUT, Hand-Held or Digital Gauge and UPC5000 or Source 3000 (PN 65315)	Consult
55279	Additional test port (output) 5 ft. long hose with quick- disconnect plug (SST) on one end and 1/4 inch 37° female AN swivel tube coupling on the other end.	Consult
55300	Additional test port (output) 10 ft. long hose with quick-disconnect plug (SST) on one end and 1/4 inch 37° female AN swivel tube coupling on the other end	Consult
55304	Additional test port (output) 15 ft. long hose with quick-disconnect plug (SST) on one end and 1/4 inch 37° female AN swivel tube coupling on the other end.	Consult
55310	Additional test port (output) 20 ft. long hose with quick-disconnect plug (SST) on one end and 1/4 inch 37° female AN swivel tube coupling on the other end.	Consult
57716	Fill port quick-disconnect female coupling body to 1/4 NPT Female	Consult
55282	Additional fill port (input) 5 ft. long hose fitted with quick-disconnect plug (brass) on one end and 1/4 inch 37° female AN swivel coupling on the other end.	Consult
55313	Fill port (input) 10 ft. long hose fitted with quick- disconnect plug (brass) on one end and 1/4 inch 37° female AN swivel coupling on the other end	Consult
55319	Fill port (input) 15 ft. long hose fitted with quick- disconnect plug (brass) on one end and 1/4 inch 37° female AN swivel coupling on the other end.	Consult
55322	Fill port (input) 20 ft. long hose fitted with quick- disconnect plug (brass) on one end and 1/4 inch 37° female AN swivel coupling on the other end	Consult
60109	Calibration Module	Consult
107288	Output (test) port quick-disconnect adjustable adapter assembly, male coupling body to Female quick-disconnect swivel other end, 3000 psig working pressure (for placing between Test Port and Pressure Trap (PN 58483) to allow Trap input/output to be parallel with UPC5000 front panel)	Consult
60242	Adapter fitting, for fill port hose, one end 1/4 inch male NPT and 7/16-20 male AN on the other end. 4000 psi working pressure (for connecting fill port hose to CGA-580 Inlet Connector)	Consult

^{*} Available in gauge only or absolute only calibration modes