

# EATON .005% Accuracy Pressure Calibration Standard

## Standard Features

- Five independent selectable ranges in each instrument
- $\pm 0.05\%$  F.S. accuracy for each range
- State of the art pushbutton calibration! Guarantees to  $\pm 0.05\%$  accuracy for each range. No analog potentiometers or adjustments required!
- Three different technicians can calibrate the same transmitter and get identical results...every time!
- Easy to operate, train in ten minutes
- Users include aircraft manufacturers, national government laboratories, oil companies, electric power plants (nuclear and fossil) and general industry
- Only one box to carry, self contained enclosure with carrying handles
- Lightweight—less than 30 pounds
- Adjustable overpressure protection
- Precision vernier control
- Display resolution of 0.02% F.S. typical for each range
- Self-contained nitrogen cylinder and vacuum converter provides 27" Hg (without external pump) to 100 psi
- Traceable to the National Institute of Standards and Technology
- Voltage/current display mode for transducer testing
- Quick disconnect fitting and hose supplied for output connection

**One instrument does it all! Calibrate from 30" Hg vacuum to 100 psig pressure**

**A  $\pm 0.05\%$  Pressure Standard, totally self-contained with its own Pressure and Vacuum source!**



## SPECIFICATIONS

<b>Pressure Ranges</b>	+0-30" Hg, +0-400" H <sub>2</sub> O, +0-100 kPa, +0-2700" H <sub>2</sub> O, 0-100 psi
<b>Available Pressure Calibration</b>	Gauge and Vacuum
<b>Overall Accuracy</b>	$\pm 0.05\%$ F.S. Accuracy of each range. Accuracy statement includes all effects of linearity, hysteresis, repeatability and ambient temperature.
<b>Operating Temperature Range</b>	+40 + 1400°F
<b>Storage Temperature Range</b>	0 to 185°F
<b>Relative Humidity</b>	95% non-condensing
<b>Pressure Media</b>	N <sub>2</sub> or Shop Air
<b>Pressure Media Filter</b>	
Rating	7 microns nominal
Type	Field replaceable filter cartridge
<b>Control Valves</b>	
Type	Micro-metering with positive shut-off, adjustable stop and replaceable seat, non-destructible.
<b>Material</b>	Aluminum/Stainless Steel
<b>Internal Piping</b>	
Tubing	$\frac{1}{8}$ " Nylon Tubing, $\frac{1}{8}$ " Copper
Fittings	Brass
<b>Test Port</b>	
Style	Quick disconnect type.
Pressure Rating	600 psi max, connected or disconnected
<b>Pressure Hose</b>	
Quality Supplied	One (1) output
Length	5 feet, nominal

<b>Vernier Control</b>	
Volume	0.25 cubic inches
<b>Material</b>	Aluminum/Stainless Steel
<b>Pressure Limit Monitor Gauge</b>	
Size	2.0 inch diameter
Range	160 psi
Pressure Supply Gauge	3000 psi
Regulator	100 psi max.
Construction	Self-relieving, single stage regulator
<b>Internal Pressure Sensor</b>	
Type	Bonded, metal foil strain gauge
Sensitivity	3 mV/V, nominal
Construction	Completely welded, sealed stainless steel outer body and pressure cavity
<b>External Carrying Case</b>	
Type	Aluminum Case with cover and carrying handle
Material Thickness	0.090 inch nominal
Finish	Gray Polyurethane baked enamel paint, textured finish
Weight	Less than 30 pounds, including 2 hoses and 1 cable.
Size	10" wide by 16" long x 11.5" high (excluding handles)
<b>Current Display</b>	
	0-20,000 mA counting by 0.005 mA
<b>Vacuum Converter</b>	Capable of generating 27" Hg vacuum stand alone or 30" Hg with external vacuum pump
<b>Weight</b>	Less than 30 pounds including oil hoses and cable

## ORDERING INFORMATION

Catalog No.	Model	Description
EA111435	UPC5100B	AC Power Pressure Standard with rechargeable internal battery
When ordering please specify LED (UPC5700BA) or LCD (UPC5700BB) display		