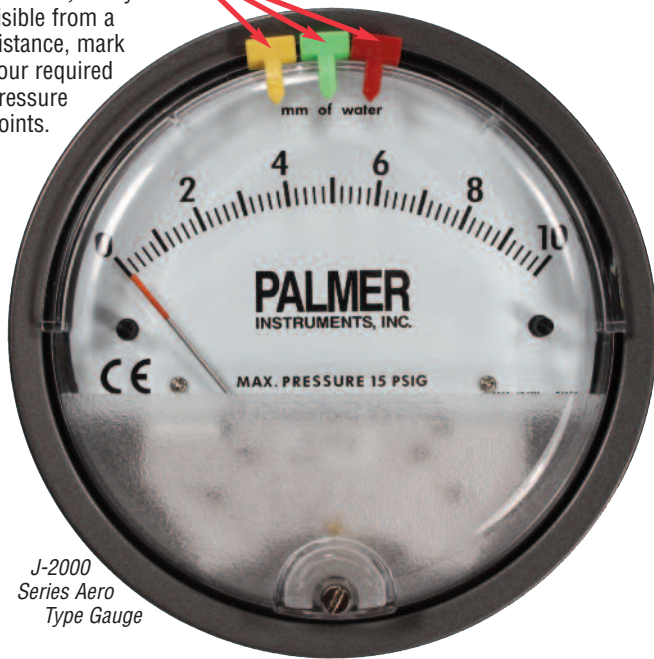


## Aero Type Low Pressure Differential Gauges • J-2000 Series

**Patented Safe-Slide Pointers**, easily visible from a distance, mark your required pressure points.



J-2000 Series Aero Type Gauge

**High, Low, or Differential Pressures Read at a glance - to within 2% Accuracy**

The **NEW! J-2000 Series Low Pressure Differential Gauges** from Palmer Instruments feature a friction-free gauge movement, and patented Safe-Slide Pointers. The quick response of the gauge indicates low air or non-corrosive gas pressures, while the sliding pointers allow for easy reading of high, low, or differential pressures.

The J-2000 Series gauges resist over-pressures, vibration, and shock without fluid fill - resulting in no trouble with leveling, evaporation, or freezing. Over 100 ranges are available in 6 measuring units for a wide variety of applications. See our website for full range availability.

### Applications

- Air and Non-combustible Gases
- Automatic Valves
- Fan or Blower Pressure
- Furnace Draft
- Gas - Air Ratio Controls
- Pressure Fluctuations
- Process Controls
- Screening Filter Resistance
- Wind Velocity
- Blood & Respiratory Pressure in Medical Equipment

### Specifications

**Case:** 4" (100mm). Corrosion resistant, die cast aluminum case and bezel. Standard Flush Mount, optional Surface Mount.

**Dial:** White aluminum dial with black numerals and graduations, and ABS Plastic Lens.

**Accuracy:** ± 2% of Full Scale

**Process Connections:** High and Low Pressure: 1/8" drill tube thread on back and side.

**Internal Pointer:** Heat treated Aluminum with easy to read red tip.

**Pointers:** Patented Safe-Slide Pointers slide around the lens, allowing the user to set Safe, Warning, and Danger Points; all easily visible at a distance.

**Range Availability:** Inches H<sub>2</sub>O, PSI, cm H<sub>2</sub>O, mm H<sub>2</sub>O, Pa, kPa

**Temperature Limits:** 20°F to 140°F (-7 to 60°C)

*Specifications subject to change without notice.*



Aero Type Gauge shown with optional J-299 Surface Mount Bracket.

### Cross cut view details important features of the Palmer Aero Type Differential Gauge:

Bezel acts as flange for standard flush mount.

Pressure integrity of case is assured by use of an O-ring seal.

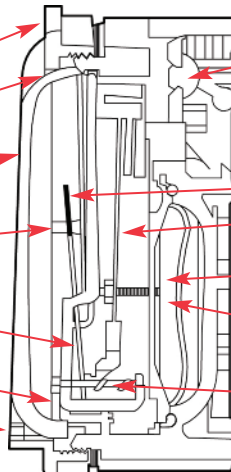
Break Resistant ABS plastic crystal allows clear view of dial face and pointer.

Over-travel or damage of pointer is prevented by rubber stops.

Helix, helix bearings and pointer are wishbone mounted.

Motion dampened, shock-resistant jeweled bearings allow friction-free motion of helix.

Front mounted adjustment screw allows zero reset without removing cover.



Blowout Plug serves as a relief valve when over-pressure reaches approximately 25 psig. The rubber plug unseats and vents the interior of the gauge.

Corrosion resistant die cast aluminum case can be surface or flush mounted in all standard pressure options.

Easy to read red tipped pointer.

Range spring of flat spring steel, and tight range of motion offers consistency and long life.

Rubber diaphragm with integrated O-ring is locked and sealed with front and back plates and retaining ring.

Diaphragm restrictor prevents over-pressure damage.

Helix rotates without mechanical linkages on a spring mounted samarium cobalt magnet.



Complete Calibration Services Available



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# Aero Type Differential Gauge Ranges

Available Ranges Inches H2O	
Model Number	Inches H2O
J-2000-00N	0.05 / 0 / 0.20**
J-2000-00	0 / 0.25**
J-2000-0	0 / 0.5*
J-2001	0 / 1.0
J-2002	0 / 2.0
J-2003	0 / 3.0
J-2004	0 / 4.0
J-2005	0 / 5.0
J-2006	0 / 6.0
J-2008	0 / 8.0
J-2010	0 / 10
J-2012	0 / 12
J-2015	0 / 15
J-2020	0 / 20
J-2025	0 / 25
J-2030	0 / 30
J-2040	0 / 40
J-2050	0 / 50
J-2060	0 / 60
J-2080	0 / 80
J-2100	0 / 100
J-2120	0 / 120
J-2150	0 / 150
J-2160	0 / 160
J-2180 <sup>1</sup>	0 / 180
J-2250 <sup>1</sup>	0 / 250
Zero Center Ranges	
J-2300-00	0.125 / 0 / 0.125**
J-2300-0	0.25 / 0 / 0.25*
J-2301	0.50 / 0 / 0.50
J-2302	1 / 0 / 1
J-2304	2 / 0 / 2
J-2310	5 / 0 / 5
J-2320	10 / 0 / 10
J-2330	15 / 0 / 15

Available Ranges PSI	
Model Number	PSI
J-2201	0 - 1
J-2202	0 - 2
J-2203	0 - 3
J-2204	0 - 4
J-2205	0 - 5
J-2210 <sup>1</sup>	0 - 10
J-2215 <sup>1</sup>	0 - 15
J-2220 <sup>1</sup>	0 - 20
J-2230 <sup>1</sup>	0 - 30

\*Accuracy ± 3%, \*\*Accuracy ± 4%,  
<sup>1</sup> Call factory for additional options.  
 For special scales contact factory.

Available Ranges cm H2O	
Model Number	cm H2O
J-2000-15CM	0 - 15
J-2000-20CM	0 - 20
J-2000-25CM	0 - 25
J-2000-50CM	0 - 50
J-2000-80CM	0 - 80
J-2000-100CM	0 - 100
J-2000-150CM	0 - 150
J-2000-200CM	0 - 200
J-2000-250CM	0 - 250
J-2000-300CM	0 - 300
Zero Center Ranges	
J-2300-4CM	2 - 0 - 2
J-2300-10CM	5 - 0 - 5
J-2300-30CM	15 - 0 - 15

Available Ranges mm H2O	
Model Number	mm H2O
J-2000-6MM	0 - 6**
J-2000-10MM	0 - 10*
J-2000-15MM	0 - 15
J-2000-25MM	0 - 25
J-2000-30MM	0 - 30
J-2000-50MM	0 - 50
J-2000-80MM	0 - 80
J-2000-100MM	0 - 100
J-2000-125MM	0 - 125
J-2000-150MM	0 - 150
J-2000-200MM	0 - 200
J-2000-250MM	0 - 250
J-2000-300MM	0 - 300
Zero Center Ranges	
J-2300-6MM	3 - 0 - 3**
J-2300-10MM	5 - 0 - 5*
J-2300-20MM	10 - 0 - 10*

Available Ranges Pa	
Model Number	Pa
J-2000-60NPA	10 - 0 - 50**
J-2000-60PA	0 - 60**
J-2000-100PA	0 - 100*
J-2000-125PA	0 - 125*
J-2000-250PA	0 - 250
J-2000-300PA	0 - 300
J-2000-500PA	0 - 500
J-2000-750PA	0 - 750
J-2000-1000PA	1 - 1000
Zero Center Ranges	
J-2300-60PA	30 - 0 - 30**
J-2300-100PA	50 - 0 - 50*
J-2300-120PA	60 - 0 - 60
J-2300-200PA	100 - 0 - 100
J-2300-250PA	125 - 0 - 125
J-2300-300PA	150 - 0 - 150
J-2300-500PA	250 - 0 - 250
J-2300-1000PA	500 - 0 - 500

Available Ranges kPa	
Model Number	kPa
J-2000-0.5KPA	0 - 0.5
J-2000-1KPA	0 - 1
J-2000-1.5KPA	0 - 1.5
J-2000-2KPA	0 - 2
J-2000-2.5KPA	0 - 2.5
J-2000-3KPA	0 - 3
J-2000-4KPA	0 - 4
J-2000-5KPA	0 - 5
J-2000-8KPA	0 - 8
J-2000-10KPA	0 - 10
J-2000-15KPA	0 - 15
J-2000-20KPA	0 - 20
J-2000-25KPA	0 - 25
J-2000-30KPA	0 - 30
Zero Center Ranges	
J-2300-1KPA	0.5 - 0 - 0.5
J-2300-2KPA	1 - 0 - 1
J-2300-2.5KPA	1.25 - 0 - 1.25
J-2300-3KPA	1.5 - 0 - 1.5

**Better value as compared to the competition!**

## Accessories

**J-299 - Surface Mount Bracket** for use with basic mounting hardware included with gauge.

**J-300 - Flush Mount Bracket** for use only if back of mounting surface is not accessible, call Customer Service for details and availability.

*Minimum purchase quantity is 100 pieces. Mix and match with all models. Please call Customer Service for information.*



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