



## Altimeters

### 5237 Series



Specification UI5237 (</Products/SpecificationsSheets/d116797.aspx?type=view>) in feet.

<b>Certification:</b>	<b>FAA TSO-C10b</b>
<b>Case Configuration:</b>	<b>MS33549, 2 inch case</b>
<b>Typical Weight:</b>	<b>13 ounces</b>
<b>Number of Pointers:</b>	<b>3</b>
<b>Barometric Setting:</b>	<b>28.1 to 31.0 in Hg/946 to 1050 mb</b>
<b>Calibrated Ranges:</b>	<b>-1,000 to 20,000 or +35,000 feet</b>
<b>Static Pressure Connection:</b>	<b>9/16-18 UNJF-3B</b>
<b>Installation:</b>	<b>Removable spring nuts and screws</b>

### 5934 Series



Full specification sheets available on request from Adams Aviation.

The Altimeter is designed for use in aircraft to help the pilot determine altitude, the height above a reference point (generally mean sea level). The Altimeter measures existing atmospheric pressure, which varies with altitude. Based on the assumption of Standard Day conditions of temperature and air pressure, the altimeter translates this pressure into a "height-above-sea-level" value, which is indicated on the dial of the instrument

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<b>Certification:</b>	<b>FAA TSO-C10b</b>
<b>Case Configuration:</b>	<b>MS33549, 3 inch case</b>
<b>Typical Weight:</b>	<b>13 ounces</b>
<b>Number of Pointers:</b>	<b>3</b>
<b>Barometric Setting:</b>	<b>28.1 to 31.0 in Hg/946 to 1050 mb</b>
<b>Calibrated Ranges:</b>	<b>-1,000 to 20,000 or +35,000 feet</b>
<b>Static Pressure Connection:</b>	<b>1/8-27 ANPT</b>
<b>Installation:</b>	<b>Removable spring nuts and screws</b>



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## 5035 Series



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The Encoding Altimeter is designed for use in aircraft to help the pilot determine altitude, the height above a reference point (generally mean sea level).

**Certification:** FAA-TSO-C10b, C88  
**Case:** MS33549, 3  
**Configuration:** inch case  
**Typical Weight:** 13 ounces  
**Number of Pointers:** 3  
**Barometric Setting:** 28.1 to 31.0 in Hg/946 to 1050 mb  
**Calibrated Ranges:** -1,000 to 20,000 or +35,000 feet  
**Static Pressure Connection:** 1/8-27 ANPT  
**Installation:** Removable spring nuts and screws

## 5506 Series



Full specification sheets available on request from Adams Aviation.

The 5506 Series Servoed Encoding Altimeter has a patented mechanism, designed with emphasis on accuracy and reliability. When used with the 5506L series Altitude Alerter, accuracy is maintained at less than 25 feet in the entire calibrated range. These units are approved for and fully compatible with Collins Autopilot System, APS-65.

**Certification:** FAA TSO-C10b, C88  
**Case:** 3ATI, ARINC  
**Configuration:** 33638  
**Typical Weight:** 3.5 pounds (1.58 Kg) max  
**Calibrated Ranges:** -1,000 feet to +50,000 feet  
**Altitude:** -1,000 feet to +50,000 feet  
**Connector:** MS3112E20-39PZ  
**Main Power:** 28 VDC/250mA, 14VAC/25mA at 1,100 Hz  
**Lighting:** 5 VDC or 28 VDC  
**System Compatibility:** Designed to operate with Collins APS-65



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## Airspeed

### 8000 Series



**Certification:** FAA TSO C2b  
**Case Configuration:** MS33638, 3 inch  
**Typical Weight:** 0.7 pounds  
**Static, Pitot Pressure Connector:** 1/8-27 ANPT  
**Installation:** Removable spring nuts and #6-32 screws  
**Lighting:** Available upon request

The 8000 Series Airspeed Indicator is intended for use on an aircraft to indicate the speed relative to the air at sea level altitude, to indicate the equivalent speed corresponding to the actual force of the air. When properly connected to an airspeed tube, mounted so as to be in undisturbed air, the airspeed indicator measures the differential pressure developed between the pitot and static opening. The pressure is indicated in units of airspeed mph and/or knots.



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### 8100 Series



The 8100 Series True Airspeed Indicator is intended for use on an aircraft to indicate the speed relative to the air at sea level or the desired altitude, to indicate the equivalent speed corresponding to the actual force of the air. The indicator has an inner dial to indicate true airspeed. That is, the altitude and temperature are the conversion factors used to obtain this reading with the use of a setting knob.

When properly connected to an airspeed tube, mounted so as to be in undisturbed air, the airspeed indicator measures the differential pressure developed between the pitot and static opening. The pressure is indicated in units of airspeed mph and/or knots.

**Certification:** FAA TSO C2b  
**Case Configuration:** MS33638, 3 inch  
**Typical Weight:** 0.7 pounds  
**Static, Pitot Pressure Connector:** 1/8-27 ANPT  
**Installation:** Removable spring nuts and #6-32 screws  
**Lighting:** Available upon request

Full specification sheets available on request from Adams Aviation.



## Manifold & Fuel Pressure

### 6100 Series



The Manifold Pressure Indicator is used on aircraft to indicate the absolute pressure of the aircraft engine intake manifold in Inches of Mercury Absolute.

<b>Certification:</b>	<b>FAA TSO C45</b>
<b>Typical Weight:</b>	<b>1.0 pounds</b>
<b>Calibrated Range:</b>	<b>10 to 35, 40, 50 and 75 In. Hg. abs</b>
<b>Smallest Increment:</b>	<b>1 In. Hg. abs</b>
<b>Number of Pointers:</b>	<b>1 or 2 pointers</b>
<b>Pressure Connector:</b>	<b>1/8-27 ANPT</b>
<b>Installation:</b>	<b>Removable spring nuts and #6-32 Screws</b>
<b>Lighting:</b>	<b>Available upon request</b>

### 6400 Series



The Manifold Pressure Indicator is used on aircraft to indicate the absolute pressure of the aircraft engine intake manifold in Inches of Mercury Absolute.

<b>Certification:</b>	<b>FAA TSO C45</b>
<b>Typical Weight:</b>	<b>0.6 pounds</b>
<b>Calibrated Range:</b>	<b>10 to 35, 40, 50 or 75 in. Hg. abs</b>
<b>Pressure Connector:</b>	<b>1/8-27 ANPT</b>
<b>Installation:</b>	<b>MS28042-1A Clamp or equivalent</b>
<b>Lighting:</b>	<b>Available upon request</b>

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## Cabin Altitude & Differential Pressures

### 3000 Series



The Indicator is a dual function unit displaying two pressure indications from two independent mechanisms. The outer scale displays the pressure inside the cabin in feet of altitude. The inner scale displays the difference in pressure between the inside and the outside of the cabin in pounds per square inch (PSI).

**Case Configuration:** P/N 3000 and 3002 Series: MS33638, 2-Inch (Flange Type)

**Typical Weight:** P/N 3003 Series: MS 33639, 2-Inch (Clamp Type)

P/N 3000 and 3002 Series: 1.0 lb.

P/N 3003 Series: 0.7 lb.

**Range:** Cabin Altitude: 0 to 50,000 ft maximum

Cabin Differential: 0 to 10 PSI

**Finish:** Exterior-Lusterless Black or gray

**Lighting:** P/N 3000 Series: Available upon request.

P/N 3002 and 3003 Series: Internally back lighted 5, 14 or 28 VDC



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### 3300 Series



The Indicator is a triple function unit displaying three indications. The inner scale displays the pressure inside the cabin in feet of altitude. The upper right side scale displays the difference in pressure between the inside and the outside of the cabin in pounds per square inch. The left side scale displays the rate of climb in feet per minute ascent or descent.

**Case Configuration:** 3ATI, ARINC 33638 or MS33549, 3-Inch (Flange Type)

**Typical Weight:** 1.0 pounds

**Range:** Cabin Altitude: 0 to 50,000 ft maximum

Cabin Differential: 0 to 10 PSI

Cabin Rate of Climb: 0 to 2,000 feet per minute up or down

**Finish:** Lusterless Black or Gray

Full specification sheets available on request from Adams Aviation.



## Turn and Slip

### 9500 Series



The 9500 Series Turn and Slip Indicators have been designed with emphasis on safety and reliability. Conventional restraining coil springs have been replaced by a single spiral torsion spring secured at the gimbal shaft. A patented viscous fluid device on the gimbal shaft dampens the gyro response to applied forces. Use of the "Hall Effect" brushless DC gyro motor



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The 9500 Series eliminates troublesome brush-commutator and slip ring problems. Gyro bearing life is enhanced by the absence of contaminating carbon particles. The gyro speed maintains exceptional stability under widely fluctuating voltage input. Red failure indicator shows unusable condition of gyro, not just "power loss." The backlit dial system provides attractive, comfortable visibility for night flying.

**Certification:** FAA TSO-C3B  
**Case Configuration:** MS33638, 2 inch case  
**Typical Weight:** 1.3 pounds  
**Input Power:** 27.5 VDC, 400 mA max  
**Connector:** MS-3102A-10SL-3P  
**Installation:** Removable spring nuts and #6-32 screws

### 9560 Series



The 9500 Series Turn and Slip Indicators have been designed with emphasis on safety and reliability. Conventional restraining coil springs have been replaced by a single spiral torsion spring secured at the gimbal shaft. A patented viscous fluid device on the gimbal shaft dampens the gyro response to applied forces. Use of the "Hall Effect" brushless

DC gyro motor in the 9500 Series eliminates troublesome brush-commutator and slip ring problems. Gyro bearing life is enhanced by the absence of contaminating carbon particles. The gyro speed maintains exceptional stability under widely fluctuating voltage input. Red failure indicator shows unusable condition of gyro, not just "power loss." The bezel lighting system provides attractive, comfortable visibility for night flying.

**Certification:** FAA TSO-C3b  
**Case Configuration:** MS33638, 3 inch case  
**Typical Weight:** 1.6 pounds  
**Input Power:** 27.5 VDC, 400 mA max  
**Connector:** MS-3102A-10SL-3P  
**Installation:** Removable spring nuts and #6-32 screws



## 9000 Series



The 9000 Turn Coordinators have been designed with strong emphasis on safety and reliability. The improved design with a rigid aluminum diecast frame and easy mechanism adjustment is trouble-free in regards to vibration and harmonic inducements. The improved simplification includes a replacement of the restraining coil spring with a spiral torsion spring, rigidly secured at the gimbal shaft. The highly reliable "Hall Effect" brushless DC gyro motor, a unique design concept extends unit life as there are no troublesome brushed or slip rings to supply power to the motor. The gyro speed maintains exceptional stability under widely fluctuating voltage input. A red failure indicator shows unusable conditions of the gyro, not just "power loss."

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**Certification:** FAA TSO-C3b  
**Case Configuration:** MS33638, 3 inch case  
**Typical Weight:** 1.7 pounds  
**Turn Rate:** 2 Minutes/Turn  
**Input Power:** 27.5 VDC, 400 mA max  
**Connector:** MS3102A-10SL-3P

Full specification sheets available on request from Adams Aviation.



## Vertical Speed

### 7000 Series



The 7000 Series Vertical Speed Indicator is a precision instrument, which provides an accurate and reliable indication of rate of change of altitude. Ascent is indicated by a clockwise rotation of the pointer from zero. Descent is indicated by a counter clockwise rotation. Zero is at the 9 o'clock position. Stops limit pointer movement at the end of the scale. A zero adjustment screw is located on the face of the case at the seven o'clock position.



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**Certification:** FAA TSO C8b  
**Case Configuration:** MS33549, 3 inch  
**Typical Weight:** 1.2 pounds  
**Range:** 0-2,000, 3,000, 4,000 or 6,000 fpm  
**Static Pressure:** 1/8-27 ANPT  
**Installation:** Removable spring nuts and #6-32 screws  
**Lighting:** Available upon request

### 7100 Series



The 7100 Series Instantaneous Vertical Speed Indicator is a precision instrument, which provides an accurate and reliable indication of rate of change of altitude. Ascent is indicated by a clockwise rotation of the pointer from zero. Descent is indicated by a counter clockwise rotation. Zero is at the 9 o'clock position. Stops limit pointer movement at the end of the scale. A zero adjustment screw is located on the face of the case at the seven o'clock position.

**Certification:** FAA TSO-C8b  
**Case Configuration:** MS33549, 3 inch  
**Typical Weight:** 1.4 pounds  
**Range:** 0-2,000, 3,000, 4,000, or 6,000 fpm  
**Static Pressure Connection:** MS33649-4 or MS33649-6  
**Installation:** Removable spring nuts and #6-32 screws  
**Lighting:** Available upon request