

# GYROS



## MID-CONTINENT INSTRUMENTS AND AVIONICS ELECTRIC ATTITUDE INDICATOR

Engineered as a primary or standby artificial horizon in fixed-wing aircraft and helicopters, this indicator's single connection makes installation a snap. This indicator is standard equipment on many OEM aircraft including the Beech Baron and Bonanza. Featuring 10-32 volt DC operation, anti-reflective glass, long-life lighting and 7,500 hours MTBF, this is a cost-effective and safe alternative to unreliable vacuum systems.  
 4300-311 - 10/32V, lighted, 0-20° .....P/N 10-00751 .....Emergency power supply TS420.....P/N 11-05540  
 Knob Cover .....P/N 10-06803

## MID-CONTINENT INSTRUMENTS AND AVIONICS 3300 ELECTRIC DIRECTIONAL GYRO



**Features:** • Weighs just 1.9 lbs. – One pound less than most electric directional gyros • Multi-voltage 10–32 volt DC, remains valid until the aircraft main battery discharges to 10VDC • Direct replacement for many AIM205 and RC Allen RC15A units • Designed specifically for use in high vibration applications • Warning flag monitors rotor speed and power input • Anti-reflective glass enhances visibility and reduces fatigue • Approved to FAA TSO-C5e and RTCA DO-160E • Requires less than half the power of standard DG units • Long-life LED lighting, user selectable to 5, 14 or 28 volt input • One year limited warranty

**Specifications:** Power Input: 10–32 VDC, Current Rating: At 14 VDC Start: 1.4A Max., Run: 0.44A nominal, At 28 VDC Start: 0.6A Max., Run: 0.22A nominal, Lighting: Internal LED lighting switchable to 5, 14 or 28 VDC input; wired through main connector, Weight: 1.9 lbs., Length: 4.65 inches, MTBF: 2,500 hours, Mating Connector: MS3116F8-4S, Mounting: Rear panel mount in standard 31/8" round panel cutout  
 3300-10 no lighting .....P/N 10-02821  
 3300-11 14V LED Lighting .....P/N 10-04773  
 3300-11 28V LED Lighting .....P/N 10-04774  
 4 Pin Connector MS3116E8-4S .....P/N 10-00791

## MID-CONTINENT INSTRUMENTS AND AVIONICS "LIFESAVER" ELECTRIC ATTITUDE INDICATOR



Fly with confidence and peace of mind with the Lifesaver® gyro. Even if every other system in your aircraft's avionics panel goes dark, the Lifesaver powers on. The only attitude indicator with a self-contained battery backup, it delivers one full hour of emergency attitude reference. 1 hr of precious time to pull you through when trouble strikes and all other power fails. Optional slip indicator can be installed anytime. No removal

of gyro necessary. **Benefits:** Field replaceable lighting, Anti-reflective glass enhances visibility and reduces fatigue, Battery life 3 years in average aircraft environment, 10-32 VDC replacement for use in either 14 or 28V aircraft. May be installed in place of an existing turn coordinator or turn, and slip indicator per FAA advisory circular AC91-75. Lighted, 0–20° .....P/N 10-00750  
 Beechcraft (Inclinometer) .....P/N 10-06794  
 Fixed Dial.....P/N 10-06797  
 Delta .....P/N 10-06798  
 Slip Indicator Kit .....P/N 10-00764  
 Remote Battery Mounting Kit .....P/N 10-00763  
 Replacement Battery Pack.....P/N 10-01054  
 3/32" Front Mount Adapter .....P/N 10-00765  
 1/2" Front Mount Adapter .....P/N 10-00766

## MPL 503 AIR PRESSURE SWITCHES



MPL 503 Series pressure switches sensitive inches/H 2 O or Knots. Accuracy and reliability offer the designer an excellent general purpose low pressure to electric interface for monitoring and control applications. The miniature size make the 503 Series ideal for OEM applications.

Description	Part No.	Price
MPL503E Air Pressure Switch Adjustable: 40-100" of H2O	11-02379	---
MPL503DO Air Pressure Switch Normally Open Setting	11-13476	---
MPL503DC Air Pressure Switch Normally Closed Setting	11-13477	---

## FALCON ATTITUDE GYRO (VACUUM)



The Falcon Gauge Attitude Gyro provides a continuous visual display of the aircraft attitude with respect to the earth for maneuvering around the longitudinal (pitch), and lateral (roll) axes, and yaw. Vacuum type is standard air driven.  
**Non-TSO'd - for Experimental Aircraft Only**  
 Non-TSO'd.....P/N 10-22955  
 Gyro with 8° tilt.....P/N 10-02242

## FALCON DIRECTIONAL GYRO (VACUUM)



The vertical rotating azimuth card is controlled by a precision gyroscope air-driven. The directional gyro will give correct heading information through ±60° of aircraft attitude in roll and pitch, 360° in yaw. A caging knob is provided to reset the gyro to the magnetic compass. Similar to Air Italia Gyros.  
**Non-TSO'd - for Experimental Aircraft Only**  
 P/N 10-22950

Falcon gyros can tolerate some aerobatic flight, but aerobatics can reduce the life of the gyro. It is recommended that the gyros be removed when the aircraft will be performing extensive aerobatic maneuvers. The Falcon electric gyros have caging knobs, but the vacuum gyros do not. Made in China.

## CASTLEBERRY ELECTRIC ATTITUDE INDICATOR



The high quality electric attitude indicator replaces the turn and bank and may be installed in the same panel location, freeing up crowded panel space. Installation of these units is straightforward. It has an inclinometer for use in standard rate turns and a failure warning flag to indicate loss of gyro RPM. When used together with the Castleberry Emergency Power Unit, Model EPU 28-24RMT, this instrument provides the pilot with a welcome margin of insurance in case of aircraft

electrical power failure.

**Features:** • Inclinometer • Power failure flag • Pull to cage knob • Backlit • Standard 3 1/8 in. diameter

Model No.	Description	Part No.	Price
300-14EL	14V Gyro **	10-02823	---
300-14EL	28V Gyro With 8° Tilt	10-02829	---
300-14ELP	300-14EL With Auto Pilot outputs.*	10-02826	---

\*Please Specify at time of order 10-32V or tilt if desired.

\*\*Light Tray required.

## CASTLEBERRY EMERGENCY POWER BACK-UP EPU-2



TSO'd emergency power supply, Model EPU 28-24RMT that can replace some older non TSO'd units made by Terra and AIM that are no longer in production. This unit provides a 24 VDC output up to 5 Amps for 30 minutes for emergency buss power to operate the standby attitude gyro with extra capacity of up to 4 amps for other critical instrument or avionics. This is economical insurance in a 7.5 pound package for aircraft frequently involved in IFR operations. Additional features of the new Castleberry unit include sealed leadacid batteries, now free from corrosion and shipping problems under hazardous materials regulations and an optional fuselage mounted external connection for testing and battery certification. Castleberry now also produces the PAC-75, a new 28-VDC electrical inverter.

Emergency Power Supply EPU-2 .....P/N 11-05822  
 EPU Connector.....P/N 11-07713  
 Rack Mount and Connector for EPU-2.....P/N 11-05823  
 Component Maintenance Manual.....P/N 11-00187