SIGMA-TEK 4000B SERIES
STANDARD DIRECTIONAL GYROS

The 4000B is a standard air-driven directional gyro. As the aircraft turns left or right, gears on the sending unit and dial shaft translate this rotation into rotation of the instrument’s vertical dial. Left turns produce clockwise dial rotation and right turns produce counter-clockwise rotation. The gyro is controlled by a heading selector knob located on the lower side of the instrument. Pressing and turning the knob first disengages the dial shaft and then resets the dial to a new heading, which results in a new course indication. Releasing the selector knob re-engages the dial shaft. The on-screen position of the pointer is always at the top of the azimuth circle (0° on the dial with the aircraft headed north).

Two knobs control the gyro. The left knob is used to cage the unit, and the right knob is used to select the instrument’s heading. To change course, the right selector knob is pressed and turned to disengage the dial shaft and set the pointer to a new heading. Releasing the selector knob re-engages the pointer with the dial shaft. As the aircraft turns onto a new course, the pointer returns to its original position. The on-screen position of the pointer is always at the top of the azimuth circle (0° on the dial with the aircraft headed north).

Some Auto-Pilot gyros are FAA PMA approved for use in several models of the Century and S-Tec Auto-Pilot systems.

SIGMA-TEK 4000C / D SERIES
AUTOPILOT DIRECTIONAL GYROS

The 4000C/D is an air-driven directional gyro with A.C. autopilot pickoffs. Left turns produce clockwise dial rotation and right turns produce counter-clockwise rotation. Two knobs control the gyro. The left knob is used to cage the unit, and the right knob is used to select the instrument’s heading. To change course, the right selector knob is pressed and turned to disengage the dial shaft and set the pointer to a new heading. Releasing the selector knob re-engages the pointer with the dial shaft. As the aircraft turns onto a new course, the pointer returns to its original position. The on-screen position of the pointer is always at the top of the azimuth circle (0° on the dial with the aircraft headed north).

Some Auto-Pilot gyros are FAA PMA approved for use in several models of the Century and S-Tec Auto-Pilot systems.

SIGMA-TEK 4000H SERIES
BOOTSTRAP DIRECTIONAL GYROS

A cost effective link to “bootstrap” other instruments requiring heading information: for display orientation to aircraft heading, heading stabilization functions, and other navigational calculations and/or solutions. Specific applications include: Argus Moving Map Display®, L-3 Avionics Stormscope®, and Insight Strike Finder®. The heading output exactly tracks the aircraft heading as depicted under the index pointer on the Directional Gyro. The synchro index and rotation reference is set to ARINC characteristics. The 26 VAC, 400 Hz heading synchro receives and sends a readily available external excitation, preferable from the instrument/system receiving the heading output or from an independent inverter. Sigma Tek’s Directional “Bootstrap” gyro includes options for lighting and interfaces for ARC, Century Flight System, and S-Tec autopilots.

SIGMA-TEK 4000HR-SERIES
HEADING REFERENCE DIRECTIONAL GYROS

The 4000HR air-driven directional gyro offers some of the best features of our other popular models. It inherited all of the functionality and reliability of the industry standard 4000B upon which it’s based, and it picked up a heading reference feature from the 4000C autopilot model.

Many pilots find the heading reminder a valuable feature whenever the cockpit is busy, such as during an approach with heavy ATC traffic. Setting a new heading during a long, transcontinental flight eliminates the tedious math associated with frequent navigational cross-checks. A quick glance at the instrument instantly reminds the pilot of his heading. The heading bug can be positioned anywhere around the heading card by turning the right knob.

SIGMA-TEK 4000B ARINC-STYLE
DIRECTIONAL GYROSCOPES

This instrument was developed for those pilots who prefer the distinct, professional look of an ARINC-styled cockpit. It is identical to the standard 4000B model differing mainly in aesthetics. Besides its distint bezel and airplane, the display graphics and colors differentiate it from the standard model. A heading reminder bug is available as an option.

The ARINC gyros have a 3° bezel that matches existing ARINC flight director systems.

SIGMA-TEK 1U367 ARINC-STYLE ATTITUDE GYRO

The 1U367 has a pictorial horizon mask and a fixed airplane. The move positions to indicate climb, dive and bank. Bank and pitch attitudes are displayed so that the pilot’s sensing of the gyro’s horizon indication is the same as the interpretation of the relationship between the wings of the aircraft and the natural horizon during visual flight. The instrument is operable following maneuvers of 360° in roll and pitch. Controlled precession is employed to achieve the 360° in pitch. Note: Arinc-bezel lighted gyros have integral lighting as noted.

SIGMA-TEK HIGH-FLOW FITTINGS

538423-001 - A 3/8" fitting used for the pump outlet (pressure) in a typical vacuum installation having 5/8" hoses.

538423-003 - A 3/8" 45° fitting used for either inlet or outlet ports with installations having 5/8" hoses.