

GYROS



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-course 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	Model	Autopilot Model	Airplane Index	Dial @ 30°	Letters @ 90°	Lighted	PMA	Part Number	Price
1U262-003-14	4000C	52D54	White	White	No	No	Yes	11-05908	---
1U262-004-15	4000C-1	52D54M	White	White	Yes	Yes	Yes	10-02929	---
1U262-042-3	4000C-17	King	White	White	Yes	Yes	No	10-05137	---
1U262-003-65	4000C-18	52D54	Orange	White	No	No	Yes	10-05138	---
1U262-004-66	4000C-19	52D54M	Orange	White	Yes	Yes	Yes	10-05139	---
1U262-005-20	4000D-1	ARC 40760-0114 (G502A)	Yellow	White	Yes	No	No	10-05141	---
1U262-006-45	4000D-6	S-TEC (6404)	White	White	Yes	Yes	Yes	10-00049	---



SIGMA-TEK 4000H SERIES XYZ 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 requires 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.

Airplane Index: Orange; **Dial:** White at 30°

Sigma-Tek	Model	Autopilot Interface	Letters @ 90°	Lighted	Part Number	Price
1U262-031-1	4000H	None	Yes	Yes	10-05142	---
1U262-033-3	4000H-2	ARC	Yes	Yes	10-05143	---
1U262-034-4	4000H-3	ARC	Yes	No	10-05144	---
1U262-033-5	4000H-4	S-TEC	Yes	Yes	10-05145	---
1U262-034-6	4000H-5	S-TEC	Yes	No	10-02106	---
1U262-035-7	4000H-6	CFS	Yes	Yes	10-05146	---
1U262-036-8	4000H-7	CFS	Yes	No	10-05147	---
1U262-039-11	4000H-10	KING (DC)	Yes	Yes	10-05149	---
1U262-040-12	4000H-11	KING (DC)	Yes	No	10-05150	---
1U262-237-9	4000H-8	CFS (DC)	Yes	Yes	10-05148	---

Accessories for the above gyros

BA14-24-BW3G (14 Volt Lamp Tray).....P/N 10-02757

BA28-24-BW3G (28 Volt Lamp Tray).....P/N 10-02758

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 bug 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, cross-country flight eliminates the tedious math associated with frequent navigational crosschecks. 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.

Dial: White at 30°; **Letters at 90°**

Sigma-Tek	Model	Airplane Color	Index Markers	Lighted	Heading Reminder	Part Number	Price
1U262-007-33	4000HR-1	White	White	No	Yes	10-05151	---
1U262-007-40	4000HR-2	Orange	Orange	No	Yes	10-00469	---
1U262-010-41	4000HR-3	Orange	Orange	Yes	Yes	10-00095	---

Note: Lighted instruments do not include lamp trays, please specify aircraft voltage:

BA14-24-BW3G (14 Volt Lamp Tray).....P/N 10-02757

BA28-24-BW3G (28 Volt Lamp Tray).....P/N 10-02758

SIGMA-TEK 4000B ARINC-STYLE DIRECTIONAL GYROSCOPES



This instrument was developed for those pilots that prefer the distinct, professional look of an ARINC-styled cockpit. It is identical to the standard 4000B model differing mainly in aesthetics. Besides its distinct 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.

Airplane Color: Orange; **Dial:** White at 30°;

Sigma-Tek	Model	Index Markers	Letters @ 90°	Lighted	Part Number	Price
1U262-011-1	4000B-23	White	Yes	14 or 28V	10-05128	---
1U262-012-2	4000B-24	White	No	5V	10-05129	---
1U262-013-3	4000B-25	White	Yes	No	10-05136	---



SIGMA-TEK 1U367 ARINC-STYLE ATTITUDE GYRO

The 1U367 has a pictorial horizon mask and a fixed airplane. The mask moves 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 360° in pitch. Controlled precession is employed to achieve the 360° in pitch.

Note: Arinc-bezel lighted gyros have integral lighting as noted.

Display Colors: Blue/Brown

Sigma-Tek Part No.	Model	Lighted	Panel Tilt	Our Part No.	Price
1U367-205-5	1U367	none	0	10-05117	---
1U367-210-11	1U367	14V or 28V	8	10-05118	---

SIGMA-TEK HIGH-FLOW FITTINGS



53B423-001 - A 3/8" fitting is used for the pump output (pressure) in a typical vacuum installation having 5/8" hoses. P/N 10-01150



53B423-002 - A 3/8" 45° fitting used for either inlet or outlet ports with installations having 5/8" hoses. P/N 10-01151



53B423-003 - A 3/8" 90° short high-flow fitting used for either inlet or outlets with installations having 5/8" hoses. P/N 10-01152



53B423-004 - A 3/8" 90° short high-flow fitting used for either inlet or outlets with installations having 5/8" hoses. P/N 10-01153