

SIL SG102-03 Revision B SG102 AHRS Service Information Letter

Date: June 26, 2009
Regarding: SG102 AHRS Software Version 1.25 Release

Reason

Availability of new SG102 AHRS software

Applicability

Applies to Sandel part number SG102-(xxx) with MOD 1

Description

The following major performance improvements are included in this software update:

Enhanced attitude performance with Sandel SN3500 and SN4500 in Reversionary Attitude Mode

Attitude performance is now on par with the industry standard Sperry VG14 vertical gyro. [Note: This software update is an increase in performance capability, not an increase to the design assurance level. The certified design assurance level of the SG102 remains at Level-C and is restricted to level-C applications]

Law Enforcement Operations

Now suitable for continuous turns around a point without time restriction, at bank angles above 8 degrees. (i.e. law enforcement, aerial photography, etc).

Aerobatics

Now suitable for aerobatic operations up to 150° per second roll rate.

Diagnostics

Enhanced SG102 429 data output (ARINC Labels 155 and 350 thru 354) coupled with data recording on Sandel SN3500 version 4.00 will assist in factory diagnosis of complex installation issues.

Enhanced noise immunity to MT102 communications

Transient communication errors from MT102 Magnetic Transducer due to strobe light wiring interference or other causes will not inadvertently cause the SG102 to re-slave.

Sandel SG102 AHRS Dealers must have the SG102 Maintenance Adapter (Sandel P/N 90230) available to install and/or support the SG102. The purchase of this tool will allow software loading into Mod 1 or higher SG102's without returning the unit to Sandel for updating. The tool can be purchased from Sandel.

The SIL SG102-03 related files including the software update, software load utility and instructions can be accessed on the Sandel website at:

www.sandel.com/SG102_sup_sb.php [case-sensitive]

- or -

contact Sandel Product Support at (760)727-4900 selection "2"

Compliance

Recommended

Warranty

None

Documentation

82011-PG Revision D1 Pilot's Guide