

SANDEL®

SN3500 Electronic HSI



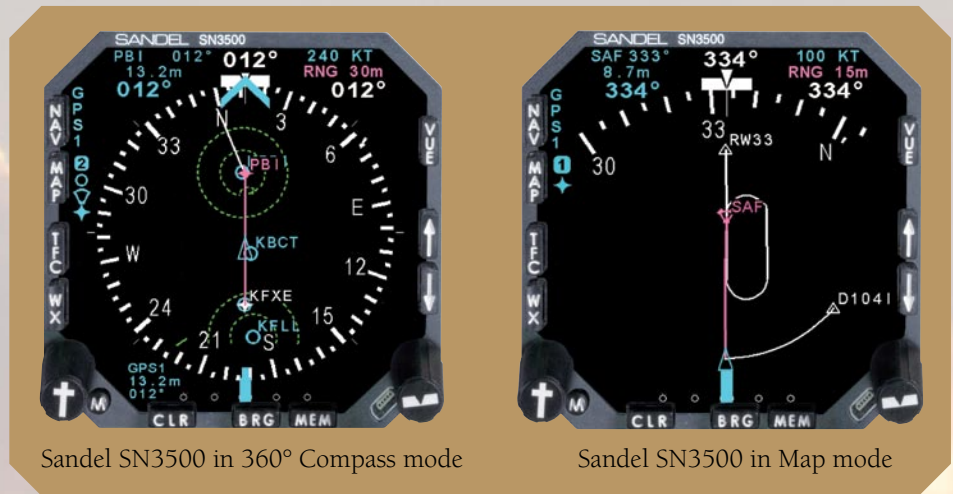
Sandel Avionics/Simply Brilliant

A REVOLUTION IN COMPACT NAV

With more than 4,000 compact EHSI systems in service, we know something about integrated compact displays. So you'd expect a turbine-class, 3-ATI drop-in retrofit system from Sandel to be nothing less than revolutionary.

And that's exactly what the SN3500 Electronic HSI is, combining advanced navigation capabilities, a bright, ultra-wide-angle display and a full range of safety functions.

Incorporating the equivalent of a four-inch screen in a three-inch instrument, the SN3500 improves situational awareness by presenting Compass, Map, Flight Plan and RMI data in a bright, crisp, easy-to-read format. FAA-certified as a primary flight display, the SN3500 can even show overlaid Stormscope® weather and traffic information from TCAS, TCAD and TAS receivers, maximizing situational awareness.



Sandel SN3500 in 360° Compass mode

Sandel SN3500 in Map mode



A HEAD-TURNING DISPLAY

With its impressive performance and features, the SN3500 also raises the bar in display technology. Using an advanced display technology developed for the newest generation of aircraft, the SN3500's bright, high-contrast screen gives you incredible readability in any lighting.

It also offers ultra-wide viewability that current LCD screens can't match, providing a full 180° of coverage from left to right and top to bottom. With its patented LCD projection system, the SN3500 even accommodates polarizing sunglasses without information loss, while its brightness, sharpness and contrast make it one of the most sunlight-readable systems available. And this superb display is backed by Sandel's award-winning customer support, to keep you flying with confidence.

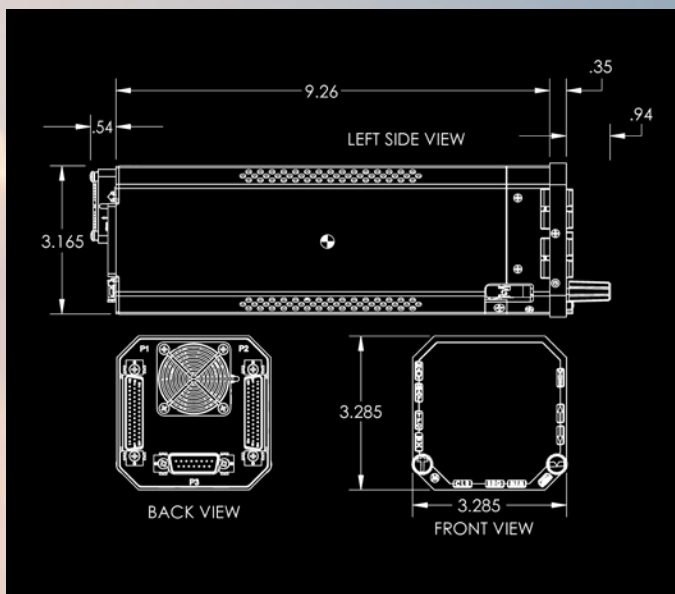


UNMATCHED FLEXIBILITY

As impressive as the baseline SN3500 unit is, the SN3500 system offers even greater capability, through its expandable Input/Output. Enabling the system to work with almost every aircraft type and configuration, this built-in module supports both analog and digital avionics systems, saving on installation time and cost, and ensuring that all your navigation sensors are properly utilized.

Moreover, our smart I/O also helps your SN3500 add new functions. With a software upgrade option from your dealer, you can add traffic displays for TCAS, TCAD and TAS, with targets overlaid on your flight plan, and datalink weather information.

Whatever your needs, there's an SN3500 configuration that's ideally suited to your corporate, air transport or GA aircraft. There's even a ruggedized version that meets MIL-SPEC vibration resistance standards for helicopter operations.



KEY FUNCTIONS

- Displays GPS vertical deviation from WAAS-enabled GPS receivers
- Sharp, sunlight-readable display with ultra-wide left-to-right and up-down viewing angle
- Bright, nine-square-inch screen comparable to many four-inch EFIS displays
- Full-color moving map supporting GPS-supplied waypoints, heading, bearing pointers for VOR and ADF, DME display and marker beacons
- Upgradeable system combines navigation with such safety options as traffic, Stormscope and datalink weather
- One-touch toggle between 360-degree compass and 70-degree ARC view
- HDG and CRS sync functions automatically set the heading bug directly to your current heading, or the course pointer to a VOR station
- Auto-slew function simplifies waypoint sequencing and Direct-To GPS navigation, allowing you to fly an entire GPS flight plan, hands-free

SELECTED FEATURES

- Internal Jeppesen NavData™ database supplements IFR flight plan data and approach waypoints derived from your GPS receiver's IFR-approved database
- Graphical bearing pointers and digital bearings supplied for any selected navigation source
- Dynamic data tags show fixes and waypoints
- MEM feature allows you to pre-configure two separate situational views and toggle between them with a single keystroke
- One-touch declutter for each display item
- Approved for use as a primary heading and NAV display
- Ideal for light turbine, high-performance piston and rotary-wing aircraft

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SPECIFICATIONS

Weight

SN3500:
Bracket & Connectors

3.0 lb (1.36 kg)
0.5 lb (0.23 kg)

Dimensions

Length (with bezel): 9.61 in (24.41 cm) 9.27 in (23.55 cm) from panel to back of unit
Body: 3.165 in x 3.165 in (8.04 cm x 8.04 cm)
Bezel: 3.285 in x 3.285 in (8.344 cm x 8.344 cm)

Power Requirements

22-33 VDC
27.5 VDC @ 1.4A (38.5W) nominal

Cooling Requirements

Internal fan requiring ambient air at fan input

Mounting

Standard 3-ATI panel cutout with clamp and Positronic® connectors.

Operating Environment

-20° C. to +70° C.
+55,000 ft. altitude (max.)

Certification Basis

TSO-C113, Airborne Multipurpose Electronic Displays
DO-160D, Env. Cat. [(A2)(F1)]ZBAB[(H)(R)]XXXXXXZBABB[WW]M[XXF2]XXA
DO-178B, Software Level C

Interfaces

Heading:

Bi-phase stepper (Mid-Continent 4305 & KG102)
XYZ synchro (ARINC 407)
ARINC 429

Flux Gate:

Standard 400-Hz XYZ 3-wire interface with external excitation

NAV:

Analog and ARINC 429

DME:

2 King serial or ARINC 568 digital (e.g. KN62/64, KN63)
1 Analog DME input (40 mV/nm)

ADF:

SIN/COS, Synchro and ARINC 429

GPS:

ARINC 429, RS-232 and RS-422

Composite NAV:

2 ARINC 0.5V inputs, Internal NAV Converter

Marker Beacons:

3 discrete inputs

Switch/Annunciators:

Discrete and ARINC 429

Lightning Detection:

WX-500 Stormscope

Options:

Traffic, ARINC 429
Datalink Weather, RS-232



Specifications subject to change without notice.

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