AVIDYNE

PFD4000

Primary Flight Display System

The PFD4000 brings Avidyne's industry-leading Entegra glass flight deck capability to an expanded list of General Aviation aircraft.

Compact, Big-Glass Retrofit PFD for Light General Aviation

PFD4000

The PFD4000 is Avidyne's new compact big-glass primary flight display system that is designed with the flexibility to be installed in a number of different aircraft types and configurations.

Designed as a "6-pack" replacement, the PFD4000 adds all the enhanced situational awareness and reliability benefits of an all-glass flight deck to virtually any general aviation aircraft.

The PFD4000 fits in virtually any panel space, conveying traditional primary flight instrumentation as well as a pilot-selectable moving map presentation of flight plan data and an RMI/Bearing pointer, all within the primary field of view, reducing pilot workload.

Installed with Avidyne's versatile EX5000 or EX500 MFD – which shows navigation data, MultiLink™ datalink weather, lightning, traffic, obstacles, and terrain – Avidyne delivers a high-reliability glass flight deck solution with our hallmark "easiest-to-use" pilot/user interface.

PFD4000 Big Glass for Whatever You Fly

The PFD4000 integrates all of your primary flight instruments into a single, easy-to-use, and easy-to- interpret display.

Integrated EHSI

The electronic horizontal situation indicator (EHSI) puts advanced navigation display capability in the primary field of view. Fully integrated with your VLOC/GPS, the PFD4000 provides synchronized switching as you transition from the en route phase to the approach phase of your flight.

Easy-to-Fly Trend Indicators

6-second trend indicators for airspeed, altitude and heading allow you to fly with higher precision and reduced workload when changing or maintaining critical airspeeds or altitudes.

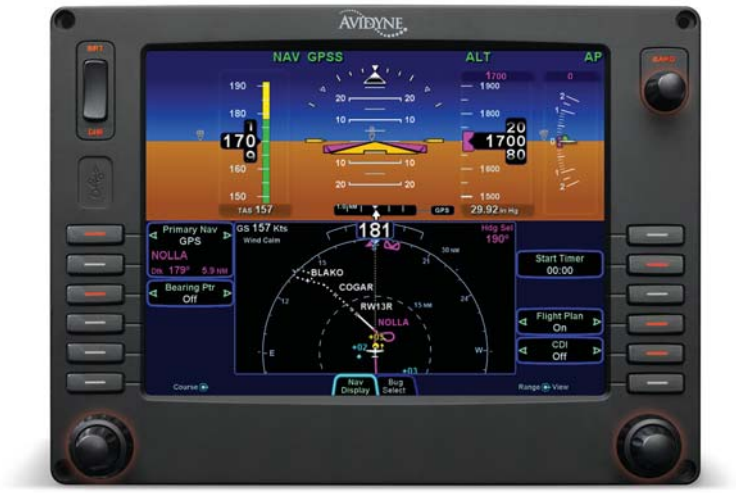
Integrated Autopilot Functions

The PFD4000 may be coupled with the autopilot for altitude preselect, vertical speed select and heading select modes without the need for external controllers. Selection bugs and digital readouts for each of these parameters are provided for concise operation.

Ease of Use – An Avidyne Hallmark

The straight-forward user interface makes flying the PFD4000 a breeze, including one-button access to frequent pilot settings such as altitude/ vertical speed/ heading bugs and dedicated BARO control. Nav sources are push-button selectable for the EHSI needle, the bearing pointer, and the flight-plan moving map. The PFD4000 was designed to have a learning curve of less than five minutes.

PFD4000 Extending the Entegra Product Line



Crisp, Bright Display

The PFD4000's super-bright LED-backlit XGA display provides a fully- sunlight-readable presentation of your primary flight data in a single, 8-inch diagonal high-resolution (1024x768 pixel) LCD.

A single PFD4000 fits easily as a 6-pack replacement in most popular single-engine and light twin-engine aircraft, and can be installed in dual-PFD configurations in many popular models.

Cross-Compare System™

In dual-PFD4000 installations, Avidyne's unique Cross-Compare System™ (CCS) constantly monitors both ADAHRS and provides visual alerts in the unlikely event of any discrepancy. CCS also monitors the aircraft navigation systems and in the event of any inconsistency, provides the appropriate alerts.

Remote-Mounted AHR300 ADAHRS

The PFD4000 uses Avidyne's AHR300 remote-mounted, solid-state Air Data/ Attitude and Heading Reference System (ADAHRS).

The compact, lightweight, AHR300 uses a 3-axis solid state gyro and accelerometer system combined with a magnetometer to replace vertical and directional gyros.

The AHR300 provides Roll, Pitch, Heading, Yaw and rate data to drive the PFD4000 display with reliability far exceeding mechanical gyros.

Connected to the pitot-static system, the AHR300's integrated air data computer provides airspeed, altitude, vertical speed, and outside air temperature (OAT), and continually updates the winds aloft and true airspeed (TAS) indications on the display.

Looking to the Future

The PFD4000 is designed to support future upgrades, including Synthetic Vision (SVS), Enhanced Vision (EVS), and Highway in the Sky (HITS) display formats.

Specifications

Size	Height	Width	Depth	Weight
PFD4000	7.00″	9.50″	3.50″	8.0 lbs
	17.80cm	24.10cm	8.89cm	5.45kgm
AHR300	6.04″	9.80″	2.87″	3.40 lbs
	15.34cm	24.89	7.29cm	1.54kgm
MPI130	6.00″	8.00″	1.50″	1.8 lbs
	15.20cm	20.30cm	3.80cm	0.82kgm

Displays
8″ Diagonal, Color Active-Matrix LCD
Sunlight readable
XGA - 1024x768 pixels, 65,536 colors

System Power
3.3 A @ 28VDC

Operating Altitude
Up to 55,000 ft.

Operating Temperature
-20C to +55C
+70C Short term

Warranty
2 Years parts & labor included
Extended warranty service available

TSO Compliance
TSO-C2d Airspeed Instruments
TSO-C3d Turn & Slip Instruments
TSO-C4c Bank & Pitch Instruments
TSO-C6d Magnetic Direction Inst.
TSO-C8d Vertical Velocity Instruments
TSO-C10b Altimeter, Pressure Actuated
TSO-C43c Temperature Instruments
TSO C106 Air Data Computer

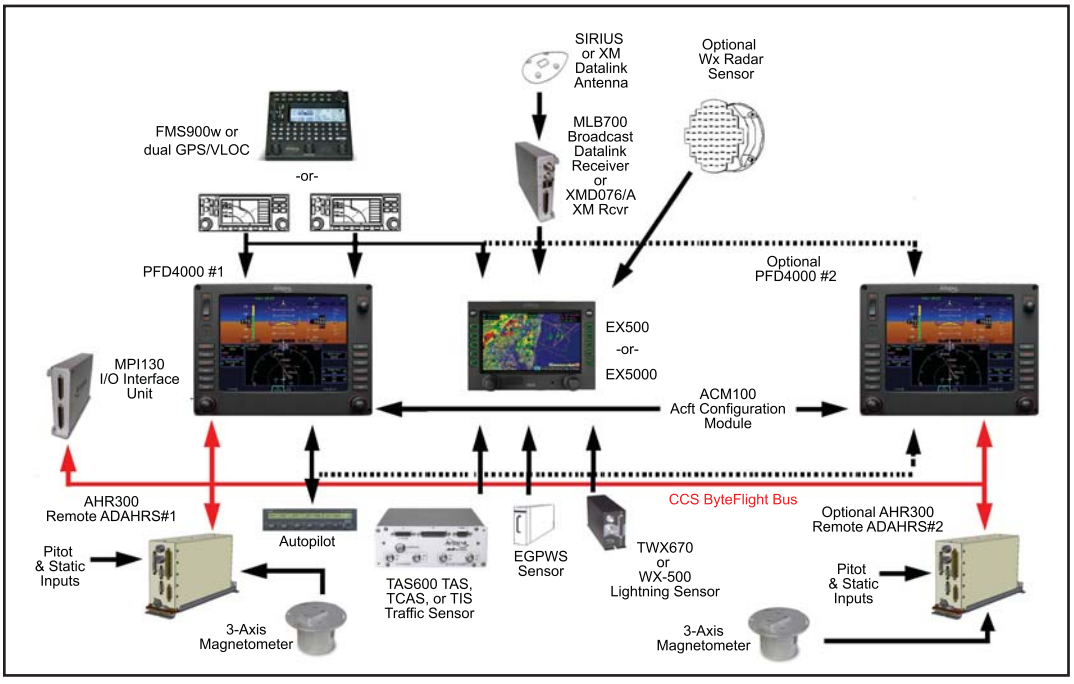
Certifications
Class I, Class II, AML

Functionality

GPS/FMS interface
Avidyne FMS900w
ARINC 429 Standard/GAMA Graphics
NMEA Standard RS-232
Garmin GNS-Series RS-232 & ARINC 429
B/K Series RS-232 & 429

Analog & Digital V/LOC interfaces
Bendix/King Series
Garmin Series

Analog & Digital Autopilot Interfaces
B/King Series
S-TEC Series
Century Series



Easy to Install
The PFD4000 is designed for ease of installation, calibration, troubleshooting and repair. Its self-diagnostic, built-in test capability provides easy analysis in the event of a problem. In addition, an Aircraft Configuration Module (ACM) stores and maintains all system settings with the aircraft so there is no need for recalibration or reconfiguration in the event of an equipment change. A front bezel-mounted USB port makes software updates easy and convenient.

AVIDYNE®

Avionics installations require special skills and test equipment. Avidyne's limited warranties are valid only for equipment installed by factory-authorized service centers. Avidyne reserves the right to make changes to product specifications and design features without notice. Some products may require additional hardware or software for full feature capability.

55 Old Bedford Road
Lincoln, MA 01773

Ph 781.402.7400 800 AVIDYNE
Fax 781.402.7597

www.avidyne.com