SAC 7-35 Air Data Computer

Putting Power In Your Navigation System



Get The Most From Your Garmin GNS430/530

- Real Time Winds Aloft
- Density Altitude
- Outside Air Temperature
- Improved Roll Steering And Autopilot Capture

ADS-B Interface to Mode S Transponders

SANDIA aerospace

Photo Courtesy NASA Hubble



SAC 7-35 Air Data Computer

Performance You Can Count On

The SAC 7-35 has set the Air Data Computer standard for General Aviation aircraft, combining the accuracy and performance demanded by today's integrated avionics systems. The addition of the SAC 7-35 will unlock the powerful features your new system is capable of providing to you. All with the quality and reliability you have come to expect from SANDIA aerospace.

In addition to the airdata capabilities the -01 version of SAC 7-35 provides interface compatibility between Garmin 400W/500W navigators and certain Mode S transponders for **ADS-B** operations.

Get More From Your Navigation System

The new generation of integrated avionics have been designed to provide the pilot with a host of information to make his flying safer and more economical. Such information as real time **Winds Aloft** which aid the pilot in selecting the altitude that provides the best cruise performance. And with today's rising fuel costs, this is rapidly becoming a more and more important consideration. **Density Altitude** to help determine takeoff off distances and make those important go, no-go decisions, particularly at high altitude airports and those with short runways. Digital **Outside Air Temperature** simplifies temperature monitoring to determine when icing conditions may exist. **Fuel Flow** data allows you to continually monitor your fuel used and watch any changes in fuel consumption that may indicate engine problems.

Four Systems In One

A full featured ***Air Data Computer*** enhancing the utility of your navigation system. The SAC 7-35 provides all the performance of Airdata Computers costing thousands of dollars more. ***Altitude In-Flight Monitoring*** (AIM) alerts the pilot whenever the aircraft deviates more than 100' feet from a selected altitude. Certified ***Altitude Encoder*** that provides both Gilliam Grey Code for legacy transponders and RS 232 outputs for modern designs. With the addition of a fuel flow transducer(s) the SAC 7-35 supplies digital ***Fuel Flow*** information to navigation systems that have Fuel Flow displays.

Technical Specifications

Electrical:
- 10-32 VDC
- 1 Amp Max

Mechanical:
- 4.87W x 5.62L x 1.89H
- 1.2 Lbs

Inputs:
- ARINC 407 Synchro Heading
- OAT
- Pitot (Airspeed)
- Static (Altitude)
- Track, Mag Var & Ground Speed From On Board GPS
- 5 Volt Pot Baro
- Fuel Flow, Pulse
- GPS Position (-01 Version only)

Air Speed:

KTS:	40-450
MACH:	0.1-.99

Wind Speed: 0-200 Kts

Vertical Speed: +/- 9999 Ft/min
+/- 20000 On ARINC Bus

Air Temp:

Range:	-60C to +60C
Accuracy:	+1.5°C

Altitude: 35,000' Max

Resolution:		
	Grey Code	100'
	RS 232	10'
	ARINC 429	10'

Accuracy:

-1000'	to	5000'	±25'
5001'	to	11000'	±30'
11001'	to	20000'	±35'
20001'	to	30000'	±50'
30001'	to	35000'	±75'

Fuel Flow:

Flow Rate	1-14400 GPH Per Side
K-Factor Range	500-130,000

ADS-B
- ARINC 743 Labels (-01 Version Only)

Certification:
- TSO C88a, ETSO C88a
- TSO C106, ETSO C106
- DO160E
- DO178 Level C
- DO254

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