

ACS 2002 Engine Monitor

ADVANCEDTM
FLIGHT SYSTEMS INC.

ADVANCED Engine Monitoring!



(Actual Size)

All this in one sunlight readable 6 1/4" color instrument!

- ▶ Analog and Digital Engine Instruments (Manifold Pressure, RPM, Fuel Flow, Fuel PSI, Oil Temp, Oil PSI, Volts, Amps, Carburetor Temp)
- ▶ Cylinder Temperature Analyzer (EGT, CHT, EGT Peak Detection)
- ▶ Fuel Monitoring System (Fuel Computer and Fuel Tank Levels, Gallons Used, Gallons Remaining, Hours Remaining, Fuel Computer constantly cross checks with fuel tank levels)
- ▶ Voice Alerts ("Check Oil Temperature", "Check Fuel Computer", "Check Fuel Level",...)
- ▶ Flight Timer (Last Flight and Today Totals)
- ▶ Data Logging (All instrument readings are stored every 5 seconds)
- ▶ Four User Inputs (Canopy Open, Baggage Door,...)
- ▶ User Configurable Ranges (Upper Limits, Lower Limits, Red, Yellow, and Green arcs)
- ▶ User Configurable Checklists
- ▶ System Clock (Time, Date, Zulu Time)

The ACS 2002 is a complete aircraft monitoring and data acquisition system designed for aircraft with 4 or 6 cylinder engines. The system continuously monitors and displays all of the aircraft engine data on a sunlight readable color LCD display. Unlike other systems, the display can be customized to the user's preference. Any of the standard instruments can be eliminated or added to the screen.

Active Checklists

The ACS 2002 can store up to 10 user checklist pages. The system will intelligently bring up the correct page with the press of a button.

- 0 RPM Before Starting Engine Page
- Under 1500 RPM Before Take Off Page
- Over 1500 RPM Emergency Page



Fuel Tank Functions

- Tank Left Level
- Tank Right Level
- Gallons Used
- Gallons Remaining
- Works With Float or Capacitance Senders

The fuel tank levels are calibrated on installation in 2 gallon increments to correct for sender position. The fuel gauges store two calibration tables, one for plane level and one for tail down. Unlike other instruments, the fuel gauges will read correctly for a tail wheel airplane when it is on the ground as well as in level flight.

Aircraft Functions

- Flap Position
- Elevator Trim Position
- Aileron Position
- Four User Inputs



Voice Alerts

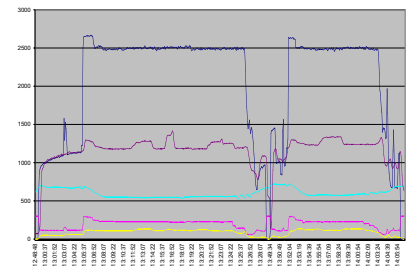
The system will warn you if any instrument enters the red warning range, it's like having a full time flight engineer!

English or Metric Units

Software Selectable

Data Logging

The ACS 2002 automatically stores all instrument reading every 5 seconds. The recorded data can easily be exported to a PC for after flight analysis.



Graph Data in your PC

Specifications

- Display
 - Overall size: 6.25" x 5" x 2.25"
 - Faceplate (panel cut-out): 6.25" x 4.25"
 - Luminosity: Reflective & Backlight dimmable to 0 nits
 - Weight: 1.5 lbs
- Controller
 - Size: 8.5" x 5.5" x 1.25"
 - Weight: 1.5 lbs
- Temperature
 - Operating: -30 deg. C to +65 deg. C
 - Non-operating: -30 deg. C to +85 deg. C
 - Power: 9 to 36 Volts, 1 Amp @ 12 Volts



Portrait Mode

Experimental instrument limited to use in experimental aircraft. Not approved for use in aircraft with FAA type certificates.

COMES WITH LIMITED ONE YEAR WARRANTY

The unit comes with a written one year limited warranty that warrants the unit to be free from defects in materials and workmanship. All other warranties are excluded. The one year warranty period begins with the first flight of the instrument or one year after the invoice date, whichever comes first. Remedies under the warranty are limited to repair or replacement of the unit or refund of the purchase price, and it does not cover any consequential damages such as damage to the engine. All other remedies are excluded. See the written warranty for further details.