



AF-2500 Engine Monitoring System Release Notes

New features and enhancements include but are not limited to the following:

Firmware Version 3.2.2 Released 11/04/05

- Fixed Flap gauge reversal problem.
- Split trim into 2 curves to achieve full travel for non-centered motors.

Firmware Version 3.2.1 Released 10/11/05

- Added multi-line curve approximation for Carb Temp channel for both Westach and 150degC, VDO thermistors.
- Added CARB, COWL, INLET, WATER labels for Carb Temp channel.
- Added units designator for Carb Temp channel.
- Fixed CHT display to allow less CHT probes than cylinders for engines like the Rotax 912.
- Fixed cylinder peak identification problem exposed in Version 3.1.9.

Firmware Version 3.1.9 Released 09/23/05

- Increased text size of digital readings on EGT/CHT gauge.

Firmware Version 3.1.8 Released 09/20/05

- Added noise filtering for RPM.
- Reduced RPM average to ½ sec to improve performance.
- Added units designator to OAT display.

Firmware Version 3.1.7 Released 09/20/05

- Added calibration section for Turbine Inlet Temp (TIT) independently of EGT.

Firmware Version 3.1.6 Released 09/13/05

- Enhanced response time of Manifold pressure gauge.
- Enhanced Engine off response time for fuel tank level gauges.

Firmware Version 3.1.5 Released 09/01/05

- Added "Carbon Monoxide" and "Check Brake" to the User Input audio selection.
- Added "Carbon Monoxide", "Check Carb Temp", "Check Turbine Temp", and "Check Manifold" to audio alarms.

Firmware Version 3.1.4 Released 08/30/05

- Added "Check Landing Gear" to the User Input audio selection.
- Added sound selector to Sound Test section of calibration.
- Added "Check Fuel Remaining" and "Check RPM" to audio alarms

Firmware Version 3.1.3 Released 08/22/05

- Calibration data now stored in Flash memory as well as battery-backed memory for improved data redundancy.
- Fuel flow output in ARNAV format for GPS systems.
- Fuel computer enhancements: Fuel Economy, Fuel at Destination, and Fuel required for Destination (when connected to NMEA-0183 compliant GPS).
- Changed Fuel Computer error messages to 'FUEL ERROR' and 'FUEL REM'.
- Made calibration pages loop in both directions.
- Changed RPM digital reading to read true RPM above maximum setting.
- Fixed Fuel Computer crosscheck warning acknowledgment problem.
- Added 'SPOILER' to label options for flap gauge.

Firmware Version 3.0.4 Released 04/15/05

- Enhanced Fuel Flow units selector to automatically convert all associated fuel calibration settings to the appropriate units (i.e. gallons and liters).
- Added unit conversion routines for OAT, Carb Temp, Oil Temp, EGT/CHT, Fuel Computer, and Fuel tank gauges.
- Engine Horsepower now displayed in whole horsepower and percentage of horsepower.
- Flap and Trim gauge now available on checklist screen.
- Enhanced checklist library now includes 29 page headings and 238 line items.
- Screen orientation now configurable from the calibration screen. Separate firmware for horizontal and vertical orientation is no longer needed.
- Auto-detect of A03 and A04 board revision. Separate firmware for A03 and A04 boards no longer needed.
- Secondary yellow band now available for RPM gauge to accommodate prop operation restrictions.
- RPM and Manifold gauge positions can now be swapped.
- Firmware upgrade date stored and displayed on time screen.
- Data storage sample rate now configurable from 1 second to 60 seconds per recording. This yields 26 minutes of 1-second resolution data all the way up to 26 hours of 60-second resolution data storage.
- ZULU time display available on main screen.
- Administrative Settings section added to calibration screen and Restore Factory Settings now password protected to avoid accidental overwriting of system specific calibration settings.