

The FADEC Experience! Read What People Are Saying...



Mr. Pete Sinclair has this to say after operating his SR22 for over 400 hours with FADEC Power...

"Every plane should have this, FADEC eliminates the need for fooling with the mixture and manual engine monitoring. I get optimum fuel economy with the push of a button—a real money saver, it works great!"

—Pete Sinclair



A very happy Kevin Pinger and Carrie Ferguson with Greg Barnes of CenTex Aerospace, Inc.

We would like to say a few things about the engine and installation into our aircraft. Operationally I can say it starts great cold or hot and runs very smooth even with the four point mount. We like the Powerlink controls and find it's operation to be intuitive and easy to understand. Oil consumption is minimal and it runs strong. There are absolutely no leaks what so ever.

The fact that Continental Motors sent their representative out from Mobile was a great confidence booster and showed continuity and good will between the two companies involved in the modification.

We appreciated Greg Barnes and the CenTex crew for easy access and personal attention to detail and their very professional test flights to make sure the aircraft was safe. The systems were well explained before delivery and the familiarization flight CenTex provided gave me the confidence to fly home without the need for any further instruction.

The engine was delivered in our opinion on time and *exactly* to the quoted price... with no surprises. The craftsmanship of the CenTex workers was excellent, friendly, smart, and left "no battle damage" behind. We felt confident our money was safe throughout the purchasing process for both the engine and the installation.

We believe the FADEC system makes sense and explored all options at overhaul time including, rebuilding it ourselves, having it rebuilt, and felt this modification was the most cost effective, added the most value to our investment and was by far the safest thing to do.

We now enjoy flying our Cirrus with our heads outside the cockpit. We found the leaning and necessary adjusting of the engines fuel mixture to be tiresome and never ending. Thanks CenTex.

—Kevin Pinger and Carrie Ferguson

FADEC System Details and Specifications What You Get With FADEC Power...

Choose Between 3 Engine Options with TCM Warranty:

- Factory New 310 HP Platinum IOF-550-N Engine
- Factory New 310 HP Standard IOF-550-N Engine
- Factory Rebuilt 310 HP Standard IOF-550-N Engine

New Belt-Driven 70 amp ALT 2 Replaces Original 20 amp ALT 2:

- Increases ALT 2 Reliability
- Increases ALT Electrical Capacity
- Backup Power Source For FADEC System
- Backup Power Source For Essential Equipment

New 12 amp-hr BAT 2 Replaces Original 7 amp-hr BAT 2:

- Increases Capacity For Emergency Operations
- Backup Power Source For FADEC System
- Backup Power Source For Essential Equipment

New Engine Control Panel Replaces Magneto Switch with:

- FADEC System Status Display
- Best Economy Selector
- FADEC System Test Switches
- Guarded FADEC Enable Switch
- Fuel Pump Operating Annunciator
- FADEC Caution and Warning Annunciators

New Serial Bus Controller Supplies FADEC Engine Data:

- Engine Gauges
- EMAX Engine Display Page
- TCM Engine Data Interface Unit

Engine Data Interface Unit:

- Stores Engine Operation & Fault Data
- Interface For Downloading Stored Engine Data
- Enables Advanced Engine Diagnostics



Teledyne Continental Motors, Inc.



"Making Aviation Better!"

FOR MORE INFORMATION:

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FULL AUTHORITY DIGITAL ENGINE CONTROL



Be a Smooth Operator with
FADEC POWER

For Your Cirrus SR22 and SR22 GTS



Teledyne Continental Motors, Inc.

FADEC Engine by Teledyne Continental Motors,
Installation by CenTex Aerospace, Inc.



"Making Aviation Better!"

FADEC (Full Authority Digital Engine Control)

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JUST IMAGINE... The satisfaction of flying your aircraft with a silky smooth engine whose performance and fuel economy is optimized for the highest level of reliability and safety. **IMAGINE no more...** Teledyne Continental Motors and Centex Aerospace has joined forces to bring you such a system, FADEC (Full Authority Digital Engine Control) for your Cirrus SR22 and the SR22 GTS.

So, what exactly is FADEC?

FADEC is a system consisting of three "electronic control units" (ECUs), and related accessories that control all aspects of engine operation.

The Full Authority Digital Engine Control (FADEC) System continuously monitors and controls ignition timing and fuel mixture/delivery/injection as an integrated control system. The FADEC System monitors engine-operating conditions (crankshaft speed and position, manifold pressure, and induction air temperature) and then automatically adjusts fuel-to-air ratio and ignition timing to attain optimum engine performance at any given power setting.

As a result, engines equipped with the FADEC System have no magnetos or manual mixture control. This microprocessor-based system controls ignition timing for engine starting and varies timing with respect to engine speed and manifold pressure.

The FADEC System is able to withstand extremes and operate at the same capacity as a non-FADEC-equipped engine in extreme heat, cold, and high humidity environments.

As a monitoring device, the system performs self-diagnostics to determine overall system status and conveys this information to the pilot on the control panel.

The FADEC System provides control during both normal operating conditions and fault conditions. In the event of loss of primary electrical power, FADEC automatically selects one of several backup electrical power sources and seamlessly continues to operate the engine.

FADEC Engine Control Panel

- FADEC Status Display
- Engine Starting Control
- Best Economy Selector



FADEC Engine

- TCM Platinum and Standard (new or rebuilt) IOF-550-N
- Improved Starting
- Smoother Engine Operation
- Improved Fuel Economy

FADEC Benefits and Advantages

- Single Power Lever
- Electronic Fuel Injection
- Electronic Fuel Ignition
- No Magnetos to Replace
- In-Flight Engine Status
- On-Line Engine Diagnostics
- Automatic Fuel Pump Operation
- Comprehensive Engine Monitoring
- Easy Hot and Cold Starting
- Optimized Efficiency
- Less Maintenance
- Increased Reliability
- Lower Operating Costs
- TCM Warranty
- **GenTex Customer Support**

Engine Data Unit

- Stores Engine Operations Data
- Enables Remote Assistance

Essential Power Increase

- Belt-Driven 70 Amp ALT 2
- 12 Amp Hour BAT 2

Mixture Control Removed

- No More Manual Leaning
- Reduces Pilot Workload

Aircraft Eligibility

- Serial No. 1– 434
Call for Availability
- Serial No. 435 and after

GenTex Aerospace, Dependable Quality and Support

GenTex Aerospace stands behind their products and service with a strong commitment to customer satisfaction. Our customers can expect the highest level of workmanship and a strong supportive relationship during and after the sale. We treat our customers like one of the family, the GenTex family.

GenTex
"Making Aviation Better!"