

Introduction of Solid-State Recorders

To increase reliability and avoiding scheduled maintenance tasks

Introduction

Technical dispatch reliability is essential for your continued competitive operation. Therefore, Fokker Services introduces a new Solid-State Flight Data Recorder (FDR) and Cockpit Voice Recorder (CVR) in your fleet. This new Solid-State Recorder that replaces the traditional tape recorder improves your system reliability and decreases your maintenance costs.



Your needs

The availability of these state-of-the-art Solid-State Recorders creates new possibilities for avoiding day-to-day concerns about the performance and reliability of the data recording system. The recorder is equipped with on-aircraft read-out features and with the latest memory technology and improved crash survivability.

The tapes for the traditional tape recorders are difficult to obtain. (The tapes will no longer be manufactured) The introduction of the Solid-State Recorders overcomes this issue and provides you an improved and a more reliable system.



Your benefits

The installation of the Solid-State Recorder on your aircraft fleet will improve your Technical Dispatch Reliability (TDR). This results in a direct improvement on your Direct Operational Costs (DOC) and therefore on your Direct Maintenance Costs (DMC).

The benefits of the innovative Solid-State Recorders, when compared with the traditional tape-version recorders are as follows:

- Exceptional reliability (25,000 hours MTBF)
- No preventive or scheduled maintenance due to non-moving parts
- Less unscheduled maintenance due to a much better MTBF figure
- Reduction of the maintenance costs because of avoiding maintenance task
- Light weight (9.9 lbs). A possible weight reduction can be achieved (depending on your aircraft configuration) of 8.2 kg (18.1 lbs) per aircraft
- Long life/low operating power (9W Max)
- Improvement of aircraft dispatch reliability
- Reduction in maintenance and repair replacement cost
- Installation of this new recorder will not affect the existing aircraft wiring (plug and play)

The offered Solid-State Recorders are applicable to the following aircraft types: Fokker 50, Fokker 60, Fokker 70, and Fokker 100. The solution that Fokker Services offers is also available for other aircraft types (such as Dash 8, ATR, Airbus and Boeing) on request.

Product description

The Solid-State Recorder is a lightweight design with rapid data retrieval and analysis without removing the recorder from the aircraft by means of computer based download equipment. The new flight data recorder meets or exceeds all regulatory standards and is available with 64, 128 or more words per second depending on the configuration of the flight data recorder in your fleet. The aircraft modification package will be available based on an EASA approved Fokker Services modification bulletin. This includes the installation procedure and modification kit.

Fokker Services offers this modification as follows:

- SBF50-31-018 Solid-State Flight Data Recorder for Fokker 50 aircraft
- SBF100-31-059 Solid-State Flight Data Recorder for Fokker 100 aircraft
- SBF50-23-020 Solid-State Cockpit Voice Recorder for Fokker 50 aircraft
- SBF100-23-027 Solid-State Cockpit Voice Recorder for Fokker 100 aircraft

Approvals
Type Certificates
Installation

EASA approved under DOA 21J.059.
EASA.A.037 (Fokker70/100), EASA.A.036 (Fokker50/60)
The Solid-State Recorders will not affect the existing wiring of the aircraft. In fact, the installation is based upon the plug and play principle. The manpower needed for removal/installation remains the same.

System Reliability
Power
Power Consumption
Bulk Erase

MTBF 25,000 operating hours
115 VAC, 400Hz or 28 VDC
9W max in DC, 10W max in AC
Fail-safe, double electric interlock. Total memory erasure completed in 5 seconds.

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