

Aviation Recorders

FA2100 FLIGHT DATA RECORDER

The L-3 FA2100 Solid-State Flight Data Recorder (SSFDR) delivers exceptional reliability, is lightweight and has a low cost of ownership. The FA2100 FDR records 64/128/256/512/1024 words per second (wps) flight data for a minimum of 25 hours. The FA2100 FDR is directly interchangeable with the Fairchild Model F800, F1000, ARINC 573 and 717 FDRs.



KEY FEATURES

- Minimum of 25 hours of flight data at 64/128/256/512/1024 wps
- Commercial airline field experience 50,000 hours
- Military options (Mil-Std 1553)
- Lightweight <11 lbs with stainless steel CSMU (5 kg)
- Optional titanium CSMU
- Available in 1/2 ATR short- or long-box configurations
- Low power consumption — 7.5W V DC, 8.5W V AC
- Combined CVR options available
- Direct replacement for ARINC 573/717 FDRs
- Accelerometers and installation accessories available
- Common ground support equipment with FA2100 CVR and CVDR



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PHYSICAL DIMENSIONS

Size: ½ ATR short or long

SHORT VERSION:

Height: 5.5 in (13.97 cm)
Width: 5.0 in (12.70 cm)
Depth: 12.6 in (32.00 cm)
Weight: 10 lbs (4.54 kg) nominal
Reliability: 50,000 hrs MTBF

LONG VERSION:

Height: 5.5 in (13.97 cm)
Width: 5.0 in (12.70 cm)
Depth: 19.6 in (32.00 cm)
Weight: 10.6 lbs (4.81 kg)
Reliability: 50,000 hrs MTBF

POWER

Requirements: 115V, 400 Hz or 28V DC
Consumption: 7.5W max when powered by 28V DC and 8.5W max when powered by 115V AC 400 Hz

RECORDING

Time: Storage capacity exceeds 25 hrs of flight data

CONNECTORS

Rear: Dual 57-pin DPX2-37065-0011 connector compatible w/ ARINC 573/717/747

Mating: ITT Cannon DPXZMA-57S-57S-33-00001 or equivalent

ENVIRONMENTAL

Temperature: Operating: -55° to +70°C
Non-operating: -55° to +85°C

Altitude: Operating: -1000 to 55,000 ft

Vibration: Operating: D0-160C Para 8.5.2 Category C (random)

ENVIRONMENTAL cont'd

Penetration: ED-55: 500 lbs/10 ft³/₄-inch probe
Static Crush: ED-55: 5000 lbs

Fire Protection: 50,000 BTU/sq ft/hr for 60 min at 1100°C; 10 hrs at 260°C

Impact: ED-55: 3400 g, 6.5 ms, half-sine shock wave

UNDERWATER ACOUSTIC BEACON

Beacon, six-year battery and bracket supplied with unit

CERTIFICATION

FAA TSO-C124a

REGULATORY SPECIFICATIONS

ARINC 404A, 573/717 (64/128 wps)
747 (64/128/256/512/1024 wps),
EUROCAE MOPS ED-55, RTCA/D0-160C,
RTCA/D0-178B Level C

L-3 Aviation Recorders Quality Management System is ISO 9001:2000 and AS9100:2004 Rev. B Certified

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communications

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L-3. Headquartered in New York City, L-3 Communications is a prime contractor in aircraft modernization and maintenance, C³ISR (Command, Control, Communications, Intelligence, Surveillance and Reconnaissance) systems and government services. L-3 is also a leading provider of high technology products, subsystems and systems.

This technical data and software is considered as Technology Software Publicly Available (TSPA) as defined in Export Administration Regulations (EAR) Part 734.7-11.

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