

L-3 Aviation Recorders

FA2100 COCKPIT VOICE RECORDER

The L-3 FA2100 Solid State Cockpit Voice Recorder (SSCVR) delivers exceptional reliability, is lightweight and has a low cost of ownership. A direct replacement for all Fairchild Model A100A, A100S and A200S CVRs, the FA2100 provides the maximum recording capacity at the highest quality. Options include ATC Datalink Messaging and OMS Reporting.



KEY FEATURES

- Up to 2 hours of high quality recording on all four channels
- Commercial airline field experience >50,000 hours
- Fully compliant and certified to all civil and regulatory standards
- ARINC 557 and 757 compliant
- ATC Datalink, OMS and ARINC 429 I/O available
- Military options (Rugged, NVG, 8 Ohm)
- Lightweight <10 lbs with stainless steel CSMU (4.6kg)
- Optional titanium CSMU
- Low power consumption (9W)
- Combined CVR and FDR option available
- Control units, microphones and installation accessories available
- Direct replacement for all Fairchild CVRs
- Common ground support equipment with FA2100 FDR and CVDR
- GA Version available



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PHYSICAL DIMENSIONS

Size:	½ ATR Short
Height:	5.5 inches (14.00 cm)
Width:	5.0 inches (12.70 cm)
Depth:	12.6 inches (32.00 cm)
Weight:	9.9 pounds (4.49 kg)
Reliability:	>50,000 hours MTBF (calculated)

POWER

Requirements:	115V, 400Hz or 28VDC
Consumption:	9W max in DC, 10W max in
Control Unit:	18VDC, 25mA short-circuit protected power source for control unit/microphone preamplifier

RECORDING

Time:	120 minutes high quality (4 channels) or 30 minutes high quality (4 channels)
Channels:	4 audio input channels

MONITOR OUTPUT

Headphone Jack:	600 ohms at the control unit, optional 8 Ohms
Bulk Erase:	Fail-safe, double electric interlock
Rotor Speed:	7Hz – 6kHz

CONNECTORS

Rear:	57-pin DPXB connector with ARINC757/557
Mating:	ITT Cannon DPX2-57-33S-0001 or equivalent

ENVIRONMENTAL

Temperature:	Operating: -55° to +70°C Non-operating: -55° to +85°C
Altitude:	Operating: -1000 to 55,000ft
Vibration:	Operating: D0-160C Para 8.6.2 Category C (random)

ENVIRONMENTAL cont'd

Penetration:	500 lbs/10 ft ^{1/4} " probe
Static Crush:	ED-56A: 5,000 lbs
Fire Protection:	50,000 BTU/sq ft/hour for 60 minutes at 1110°C; 10 hours at 260°C
Impact:	ED-56A: 3400 g, 6.5 ms, half-sine shock wave

UNDERWATER ACOUSTIC BEACON

Beacon, six-year battery and bracket supplied with unit.

CERTIFICATION

FAA TSO-C123a

REGULATORY SPECIFICATIONS

ARINC 404A, 757, EUROCAE MOPS ED-56A, ED-112 RTCA/DO-160C, RTCA/DO-178B Level C

L-3 Aviation Recorders Quality Management System is ISO 9001:2000 and AS9 100:2004 Rev. B Certified

Aviation Recorders

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communications

Aviation Recorders

L-3. Headquartered in New York City, L-3 Communications employs over 64,000 people worldwide and 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. The company reported 2007 sales of \$14 billion.

MKT048 Rev *B This technical data and software is considered as Technology Software Publicly Available (TSPA) as defined in Export Administration Regulations (EAR) Part 734.7-11.