

L-3 Aviation Recorders

FA2100 COCKPIT VOICE AND DATA RECORDER

The L-3 FA2100 Solid State Cockpit Voice and Data Recorder (CVDR) delivers exceptional reliability, is lightweight and has a low cost of ownership. The FA2100 CVDR provides four channel, 2 hour or 30 minute high quality audio recording and 64/128/256 words per second flight data for a minimum of 25 hours.



KEY FEATURES

- Up to 2 hours of high quality recording on all four channels and a minimum of 25 hours of flight data at 64/128/256 wps
- Commercial airline field experience 50,000 hours MTBF
- Fully compliant and certified to all civil and regulatory standards
- ARINC 573/717/747 (Data) 557 and 757 compliant
- ARINC 429 OMS and MIL-STD-1553 available
- Military options (Rugged, NVG, 8 Ohm)
- Lightweight <10 lbs with stainless steel CSMU (4.6kg)
- Optional titanium CSMU
- Low power consumption (9W)
- Stand-alone CVR and FDR options available
- Control units, microphones and installation accessories are available
- Common ground support equipment with FA2100 CVR and FDR



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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) (optional 7.9 pound)
Reliability:	50,000 hours MTBF (field experience)

POWER

Requirements:	115V, 400Hz or 28VDC
Consumption:	9W max when powered by 28VDC
Control Unit:	18VDC, 25mA short-circuit protected power source for preamplifier

RECORDING

Audio:	30 minutes or 120 minutes high quality
Data:	25 hours of 573/717 flight data at 64/128/256 wps, rotor speed and time code

MONITOR OUTPUT

Headphone Jack:	600 ohms at the control unit, optional 8 ohms
Bulk Erase:	Fail-safe, double electric interlock audio memory era sure completed in 5 sec

CONNECTORS

Rear:	57-pin DPXB-36571-59 connector with ARINC 757
Mating:	ITT Cannon DPX2-57- 33S-0001, or equivalent, optional MIL-C-38999 connector with MIL STD 1553

ENVIRONMENTAL

Temperature:	Operating: -55° to +70°C Non-operating: -55° to +85°C
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ENVIRONMENTAL cont'd

Altitude:	Operating: -1000 to 55,000 ft
Vibration:	Operating: D0-160C Para 8.6.2 Category C (random)
Penetration:	500 lbs/10 ft ^{1/4} " probe
Static Crush:	5,000 lbs
Fire Protection:	50,000 BTU/sq ft/hour for 60 minutes at 1110°C; 10 hours at 260°C
Impact:	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 and C124a

REGULATORY SPECIFICATIONS

ARINC 404A, 757, EUROCAE MOPS ED-55 and ED-112, ED-56A

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

MKT047 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.