

L-3 Aviation Recorders

FA2500 ALL PURPOSE RECORDER

The L-3 FA2500 All Purpose Recorder (APR) is a light weight, state of the art solid state combination recorder that performs the functions of flight data acquisition, audio and data recording in a single unit. The APR series is a ruggedized derivative of the popular L-3 Combined Voice and Data Recorder (CVDR), but has been designed to meet the needs of customers requiring all three recorder functions in a single unit along with meeting high environmental survivability requirements.



KEY FEATURES

- Records 2 hours of voice and a minimum 25 hours of flight data
- Combined voice and data storage in crash survivable memory unit
- Flight data acquisition using comprehensive interface capability (MIL-STD-1553B, ARINC 429, Ethernet, Analogs and Discretes)
- Standard L-3 crash survivability memory unit proved with over 80 million flight hours
- Common part number for multiple platforms
- Complete data readout system
- Growth capability to include integrated health usage monitoring system (HUMS)



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PHYSICAL DIMENSIONS

Height:	7.5 inches (19.05 cm)
Width:	5.2 inches (13.21 cm)
Depth:	10.5 inches (26.67 cm)
Weight:	11.1 pounds (5.04 kg)
Reliability:	25,000 hours MTBF (calculated)

POWER

Requirements:	28VDC
Consumption:	40W, Max

RECORDING

Time:	2 hours high quality audio, 25 hours flight data
Channels:	4 audio input channels; dual redundant 1553 data buses; 802.3 10/100 ethernet; ARINC 429s; analogs; synchros and discretes

CONNECTORS

LRU:	J1-55 and J2-100 Pin Connectors
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ENVIRONMENTAL

Temperature:	Operating: -55° to +70°C Non-operating: -55°to +85°C
Altitude:	Operating: -1000 to 50,000 ft
Vibration:	Operating: MIL STD-810F
Penetration	500 lbs/10 ft/1/4" probe
Static Crush:	5,000 lbs
Fire Protection:	50,000 BTU/sq ft/hour for 60 min. at 1110°C; 10 hrs. at 260°C
Impact: shock wave	3400 g, 6.5 ms, half sine

UNDERWATER ACOUSTIC BEACON

Beacon, six year battery and bracket supplied with unit

REGULATORY SPECS

Standard L-3 Crash Survivable Memory Unit
tested to ED-55, ED-56a, TSOC123a, TSOC124a



Back Side of APR

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.

MKT046 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.