

# Aviation Recorders

## FA2500 ALL PURPOSE RECORDER

The L-3 FA2500 All Purpose Recorder (APR) is a lightweight, 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 in (19.05 cm)
Width:	5.2 in (13.21 cm)
Depth:	10.5 in (26.67 cm)
Weight:	11.1 lbs (5.04 kg)
Reliability:	25,000 hrs MTBF (calculated)

### POWER

Requirements:	28V DC
Consumption:	40W, max

### RECORDING

Time:	2 hrs high-quality audio, 25 hrs flight data
Channels:	4 audio input channels; dual redundant 1553 data buses; 802.3 10/100 Ethernet with optional filtering; ARINC 429s; analog; synchros and discretes

### CONNECTORS

Main Connector:	MIL-C-38999
LRU:	J1-55 and J2-100-pin connectors

### 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 <sup>3</sup> / <sub>4</sub> -inch probe
Static Crush:	5000 lbs
Fire Protection:	50,000 BTU/sq ft/hr for 60 min at 1100°C; 10 hrs 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

### 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

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### Aviation Recorders

L-3. Headquartered in New York City, L-3 Communications is a prime contractor in C<sup>3</sup>ISR (Command, Control, Communications, Intelligence, Surveillance and Reconnaissance) systems, aircraft modernization and maintenance and government services. L-3 is also a leading provider of a broad range of electronic systems used on military and commercial platforms.

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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