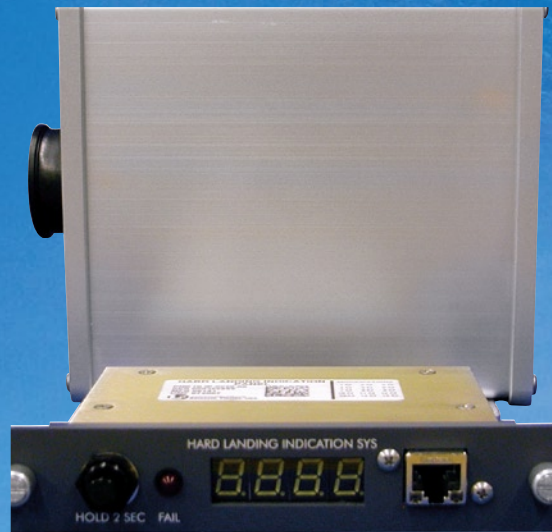


# L-3 Aviation Recorders

## HARD LANDING INDICATION SYSTEM

The L-3 Hard Landing Indication System (HLIS) monitors customer-selected aircraft parameters to allow a quick and easy evaluation of Peak-G events during the aircraft landing cycle. The HLIS records relevant aircraft data at high frequencies to permit objective analysis for aircraft operational and maintenance review. The system can be interrogated by maintenance and flight operations personnel to confirm possible maintenance actions for the aircraft. It can also reduce unnecessary extended subsystem inspections, as well as a possible landing gear quarantine after a suspected, but otherwise unconfirmed hard-landing event.



### KEY FEATURES

- System consists of a Data Acquisition Processor and 7-Segment LED Cockpit Panel
- Monitors and records "Peak g Exceedance" during each landing cycle according to the customer-defined "Landing Event"
- Data Acquisition and processing with up to 8 ARINC 429 inputs (speed-selectable in pairs), up to 32 Analog inputs and up to 90 Discrete inputs
- Processor is interrogated via the Cockpit Panel accessible with the maintenance-only passwords, no flight crew interaction with system
- Bi-directional Ethernet interface to download, view, modify and/or upload the landing event conditions and event recording triggers



# L-3 Aviation Recorders

## HARD LANDING INDICATION SYSTEM

### PHYSICAL DIMENSIONS

HLIS Main Chassis Sub-System:

Height:	5.7 inches (14.48 cm)
Width:	5.5 inches (13.97 cm)
Width:	6.45 inches (16.38 cm)
Depth:	6.17 inches (15.67 cm)
Weight:	5.45 pounds (2.47 kg)

HLIS Interface Panel Sub-System:

Height:	1.13 inches (2.87 cm)
Width:	5.75 inches (14.61 cm)
Depth:	3.06 inches (7.77 cm)
Weight:	0.55 pounds (0.25 kg)

### AIRCRAFT INTERFACE

Main Connector: MIL-C-38999 Series III Connector, J1-100 Pin Plug: D38999/24FH35PN

Suggested Mating Connector: J1-100 Pin Plug: D38999/26F35SN

Interface Panel Sub-System Connectors: DB25 Interface Port (rear mounted) and RJ45 Ethernet Port (front panel mounted)

### ELECTRICAL CHARACTERISTICS

Power Requirements:	28VDC
Power Level:	11.5W max. when powered by 28VDC
Output Power:	12VDC
Recording Capacity:	1GB memory
Input Signal Format:	ARINC 429, Analog and Discrete Inputs

### ENVIRONMENTAL CHARACTERISTICS

RTCA/DO-160E

### REGULATORY SPECIFICATIONS

ARINC 429, 747, RTCA/DO-160E, RTCA Paper No. 123-06/SC135-657



HLIS Interface Panel Sub-System



HLIS Main Chassis Sub-System

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, C<sup>3</sup>ISR (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.

MKT052 Rev \*C This technical data and software is considered as Technology Software Publicly Available (TSPA) as defined in Export Administration Regulations (EAR) Part 734.7-11.