



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 4 character, 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 10 analog inputs and up to 35 discrete inputs
- Peak-G events are displayed via the cockpit panel — no flight crew interaction needed with system
- Bi-directional Ethernet interface to download, view, modify and/or upload the landing event conditions and flight data



Aviation Recorders

HARD LANDING INDICATION SYSTEM

PHYSICAL DIMENSIONS

HLIS MAIN CHASSIS SUB-SYSTEM:

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

HLIS INTERFACE PANEL SUB-SYSTEM:

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

AIRCRAFT INTERFACE

Main Connector: MIL-C-38999 Series III connector, 100-pin D38999/24FH35PN

Suggested Mating Connector: 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:	28V DC
Power Level:	11.5W max when powered by 28V DC
Recording Capacity:	1 GB memory
Input Signal Format:	ARINC 429, analog and discrete inputs

ENVIRONMENTAL CHARACTERISTICS

RTCA/D0-160E

REGULATORY SPECIFICATIONS

ARINC 429, RTCA/D0-160E, D0-178B Level B; D0-254 Level B



HLIS Interface Panel Sub-System



HLIS Main Chassis Sub-System

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

Aviation Recorders

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L-3. Headquartered in New York City, L-3 Communications is a prime contractor in C³ISR (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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