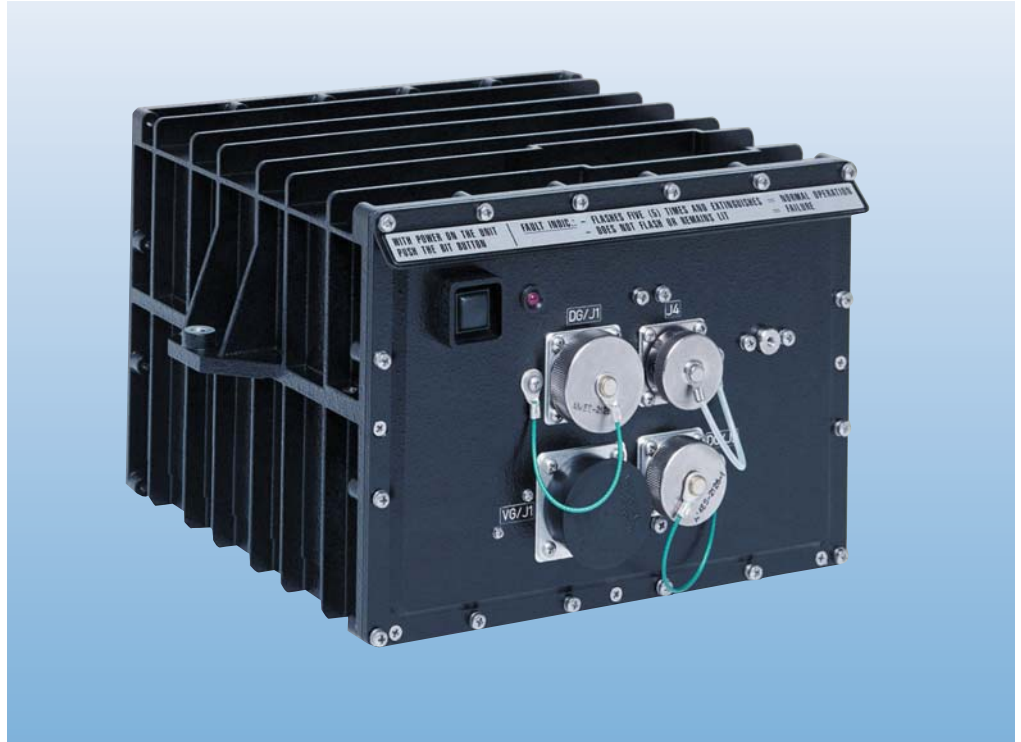


NORTHROP GRUMMAN

Ideal for retrofit, the LTR-97 offers users of aircraft such as the 727, 737, DC-8, DC-9, MD-8X, and C-130 a cost-effective, advanced technology replacement for their antiquated, failure-prone mechanical VG/DG systems

LTR-97 Fiber Optic Gyro VG/DG Replacement System



The accuracy and reliability of fiber optics

The LTR-97 is a Vertical Gyro/Directional Gyro (VG/DG) replacement system that uses Fiber Optic Gyro (FOG) technology in a strapdown configuration to provide superior aircraft attitude and heading.

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With up to ten times the Mean Time Between Failure (MTBF) of mechanical VGs/DGs, the LTR-97 improves dispatch reliability, thus reducing maintenance costs. Not only is the LTR-97 the smallest, lightest, least expensive FOG-based unit on the market, it takes just minutes to install, uses existing aircraft power, and requires no changes to the aircraft wiring.



LTR-97 Fiber Optic Gyro VG/DG Replacement System

Technical Characteristics

Weight

11.6 lb (5.3 kg)

Dimensions

- Width 10.1 in. (25.7 cm)
- Height 6.1 in. (15.5 cm)
- Length 9.8 in. (24.9 cm)

Power Required

Main Input 115 Vac, 400 Hz, 35W (40 VA) - unloaded
70W (80 VA) - full load

Reliability

MTBF >10,000 flight hours

Accuracies (2 σ)

- Attitude
 - Static 0.5°
 - Dynamic 1.0°
- Heading
 - Slaved Mode - Dynamic 0.75°
 - DG Mode - Dynamic 1.3°/hour (excluding earth rate)

Outputs

- Synchro Pitch, roll, 2 headings
- Analog 50/200 mV ac pitch and roll
- Discretes ATT and HDG warns, 6 interlocks
6° roll discrete and interlock

Qualifications

- RTCA DO-160D including HIRF and lightning
- DO-178A, Level 1 for flight-critical software

Certifications

TSO C4c, C5e, C6d

For more information, please contact:

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