ARGO 4000

Airborne Inertial Navigation Family





ARGO 4000

High Accuracy, Low Volume and Weight, Fiber Optic Gyro Airborne Inertial Navigation System family. The ARGO 4000 is Civitanavi System's latest dual use, ITAR free Inertial Navigation System for fixed and rotary wing aircrafts. The full accuracy INS, weighing a mere 3.5Kgs, is the world's lightest, smallest and lowest power consuming Inertial Navigation System available in the market today.

The **ARGO 4000** INS meets the very demanding and precise navigation capability required by airborne applications combined with **ETSO** certification for use in all civil certified aircrafts where effective navigation is required.

The ARGO 4000, due to the very flexible truly solid-state Fiber Optic Gyro technology and an innovative architecture that further reduces total components count, provides increased reliability and a significant improvement of maintainability over equivalent Ring Laser Gyro based product.

The ARGO 4000 family of products are also available in a range of accuracies from a basic **Gyrocompass AHRS** capability scaled up to a full accuracy **0.8nm/hour** navigation system for retrofit and new build programs. The dual use, non-ITAR classification is fundamental in reducing delivery lead times for dual-use aircraft programs around the world.



| CHARACTERISTICS | ARGO 4000 | ARGO 4020 | ARGO 4010 |
|------------------------------------|---|---|---|
| Heading (RMS) | < 0.05° sec LAT | < 0.1° sec LAT | < 0.5° sec LAT |
| Roll/Pitch (RMS) | < 0.02° | < 0.05° | < 0.1° |
| Position (CEP50) | 0.8 nm/hr | 2 nm/hr | 10 nm/hr |
| Alignment time (data availability) | 2 minutes | 2 minutes | 2 minutes |
| Alignment time (full accuracy) | 5 minutes | 5 minutes | 10 minutes |
| Aiding source | GPS TSO-C145c or GNSS (RTK/Omnistar) | GPS TSO-C145c or GNSS (RTK/Omnistar) | GPS TSO-C145c or GNSS (RTK/Omnistar) |
| SW/HW Compliance | DO-178C/DO-254 DAL A | DO-178C/DO-254 DAL A | DO-178C/DO-254 DAL A |

SYSTEM CHARACTERISTICS

Interfaces

RS422/RS232 ARINC429 Ethernet PPS

Data output rate: up to 500 Hz

Environmental and Reliability

Operating Temperature: -40°C to +71°C Not-operating Temperature: -55°C to +85°C

Altitude: *up to 50,000 ft* EMC/EMI: *DO-160G*

Vibration: sinusoidal 5-150 Hz random 10-2000 Hz (DO-160G)

MTBF: > 25000 hours

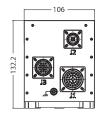
Dimensions

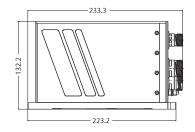
WxHxD: 106x132.2x223.2

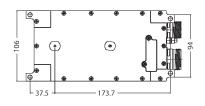
Weight 4 Kg

Power requirements

28VDC (18-36VDC): <15 W (configuration dependent)









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