# **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**

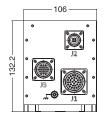
WxHxD: 106x132.2x223.2

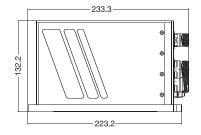
#### Weight

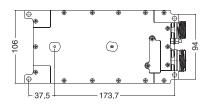
4 Kg

#### **Power requirements**

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









### CONTACT US:

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