

NEWSPACE MARKET · COMPANY PROFILE



Innalabs

Ireland · innalabs.com

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as of 20 August 2026

Innalabs

InnaLabs® is a leading developer and manufacturer of high-performance inertial sensors headquartered in Blanchardstown, Dublin, Ireland. The company designs, manufactures, and supports Coriolis Vibratory Gyroscopes (CVGs) and Quartz Servo Accelerometers (QSAs) for demanding applications across space, aerospace, subsea, marine, energy, and transportation markets. In the space segment, InnaLabs offers the ARIETIS family of 3-axis radiation-hardened gyroscope systems, the ARIETIS-NS rad-tolerant variant selected for ESA's HERA planetary defence mission, and the AQUILA space-qualified accelerometer developed under ESA contract. The company's CVG New Space gyroscopes have accumulated over 270,000 operational hours on more than 20 units in LEO since 2016. InnaLabs is ISO 9001:2015 certified and works to European Space Agency ECSS standards. With over one million cumulative gyroscope hours logged in space across 19 satellites, InnaLabs is recognised as a high-heritage European supplier of space inertial sensing.

This profile is generated from the live NewSpace Market catalogue. Specifications are as published by the manufacturer; every product links to a page where a request for quotation reaches the company directly.

SERVICES

Services

After-Sales Services

InnaLabs offers after-sales services as part of its full product lifecycle solutions, ensuring ongoing customer support.

Custom Solutions

InnaLabs engineers are flexible and can accommodate custom requirements, creating tailored solutions for various applications.

Engineering Services

InnaLabs provides engineering services, including custom solutions and support for integrating their proprietary sensors into space platforms.

Pre and Post-Sale Customer Support

InnaLabs offers excellent pre and post-sale customer support, with engineering resources to provide custom solutions.

Product Design

InnaLabs offers product design services as part of its full product lifecycle solutions, leveraging decades of experience and innovation.

Product catalogue



INNALABS

AI-Q-2020 Navigation Grade Quartz Accelerometer ($\pm 60g$, $220 \mu g$)

Navigation-grade quartz accelerometer, $\pm 60g$, $<220 \mu g$ bias repeatability, with temperature compensation.

Input Range	$\pm 60 g$
One-year Bias Repeatability	$<220 \mu g$
Temperature Sensitivity (Bias)	$<30 \mu g/^{\circ}C$
Scale Factor Repeatability	$<500 ppm$
Axis Misalignment Repeatability	$<100 \mu rad$
Bandwidth	$>300 Hz$
Shock	$250 g$

price on request



INNALABS

AI-Q-2030 Navigation Grade Quartz Accelerometer ($\pm 60g$, $160 \mu g$)

Navigation-grade quartz accelerometer, $\pm 60g$, $<160 \mu g$ bias repeatability, internal temperature model.

Input Range	$\pm 60 g$
Bias	$\leq 4 mg$
One-year Bias Repeatability	$\leq 160 \mu g$
Temperature Sensitivity (Bias)	$\leq 30 \mu g/^{\circ}C$
Scale Factor	$1.2 \text{ to } 1.46 \text{ mA/g}$
Scale Factor Repeatability	$\leq 310 ppm$
Axis Misalignment Repeatability	$\leq 100 \mu rad$

price on request



INNALABS

AI-Q-550 Control Grade Quartz Servo Accelerometer ($\pm 80g$)

Miniature control-grade quartz accelerometer, $\pm 80g$, $<1000 \mu g$ bias repeatability, $250g$ shock, $25.8g$.

Input Range	$\pm 80 g$
Bias	$<4 mg$
One-year Bias Repeatability	$<1000 \mu g$
Temperature Sensitivity (Bias)	$<50 \mu g/^{\circ}C$
Scale Factor	$0.65 \text{ to } 0.85 \text{ mA/g}$
Scale Factor Repeatability	$<600 ppm$
Bandwidth	$\geq 300 Hz$

price on request



INNALABS

ARIETIS

ARIETIS is an ITAR-free, space-qualified, rad-hard 3-axis gyroscope designed for use as a primary gyro or coarse rate sensor in various Earth orbits and space missions. It provides

Measurement Range	$[-3^{\circ}/s; +3^{\circ}/s]$ fine mode $[-48^{\circ}/s; +48^{\circ}/s]$ coarse mode
Switch-on response time	$\leq 6s$
ARW	$\leq 0.005^{\circ}/\sqrt{hr}$
In-run bias stability	$\leq 0.1^{\circ}/hr$
Bias Stability over 24hr (steady temperature)	$\leq 1.5^{\circ}/hr (1\sigma)$
Bias stability over 1hr (steady temperature)	$\leq 0.3^{\circ}/hr (1\sigma)$
Bias errors (over temperature range, ground, BOL)	$\leq 5^{\circ}/hr (3\sigma)$

price on request



INNALABS

ARIETIS-NS 3-Axis Rad-Tolerant Space Gyroscope System

Space-qualified 3-axis CVG for LEO/GEO/MEO, 30krad TID, ITAR-free, serial production, 16-year lifetime.

Measurement Range	[-12°/s; +12°/s]
Switch-on Response Time	≤6 seconds
Angular Random Walk (ARW)	≤0.005°/√hr
In-run Bias Stability	≤0.1°/hr
Bias Errors (3σ)	≤10°/hr
Scale Factor Repeatability (3σ)	≤3000 ppm
Radiation TID	30krad (COTS screened)

flight proven · TRL 9 price on request



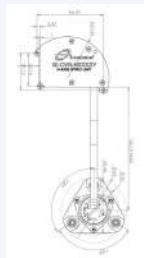
INNALABS

GI-CVG-A23XXD A-Series 3-Axis CVG Digital Gyroscope

3-axis Coriolis Vibratory Gyroscope with RS422 digital output, 0.3°/hr bias stability, 500K+ hr MTBF.

Input Rate	±160°/s
Bias In-Run (1σ)	0.3°/hr
Angle Random Walk (ARW)	0.01 °/√hr typical
Bandwidth (-3dB)	>300 Hz
Turn-on Time	1 sec
Output Update Rate	2 KHz
Baud Rate	1 MBaud

price on request



INNALABS

GI-CVG-N-Series 1 & 2-Axis Gyroscope (Tactical/Industrial Grade)

1 or 2-axis CVG with <10°/hr full-temp bias stability, <0.22°/hr in-run, 500K+ hr MTBF.

In-run Bias Stability (room temp, 1σ)	<0.22 deg/hr
Bias Stability – Tactical (full temp, 1σ)	<10 deg/hr
Bias Stability – Industrial (full temp, 1σ)	<50 deg/hr
Scale Factor Error (full temp, 1σ)	<3,500 ppm
Scale Factor Linearity	≤1500 ppm
Angular Random Walk	0.01 deg/√hr typical
Bandwidth (-3dB)	≥300 Hz

price on request



INNALABS

GI-CVG-U-Series 1 & 2-Axis Gyroscope

1 or 2-axis tactical CVG, <10°/hr full-temp bias stability, <0.22°/hr in-run, RS-422 or analog output.

In-run Bias Stability (room temp, 1σ) – Tactical	<0.22 deg/hr
Bias Stability – Tactical (full temp, 1σ)	<10 deg/hr
Bias Stability – Industrial (full temp, 1σ)	<50 deg/hr
Scale Factor Error (full temp, 1σ)	<3,500 ppm
Angular Random Walk	0.01 deg/√hr typical
Bandwidth (-3dB)	≥300 Hz
Interface	Analog or Digital RS-422

price on request

Contact Innalabs

Open the company profile on NewSpace Market to see full specifications and datasheets, and to send a request for quotation that reaches the manufacturer directly.

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