Preliminary Datasheet

General description

INNALABS' INN-204 tactical-grade accelerometers are used in both commercial and military applications such as strap-down inertial navigation systems for aircraft, marine, land and other applications. Excellent performance of these accelerometers is achieved owing to proven quartz flexure technology. Implementation of the latest advances in technology and economy of scale enable us to set lower price compared to other analogue accelerometers. Another substantial advantage is the fact that INNALABS does not require export licenses, so the purchasing process is very fast and hassle-free. These factors make **INN-204** the №1 accelerometer on the tactical navigation market today.

Features

- Tactical performance
- High Input Range
- High stability under temperature changes
- Analog output
- Compact design
- **INNALABS does not require export licenses**

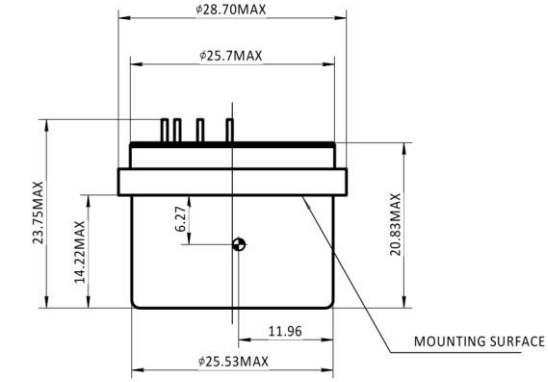
Applications

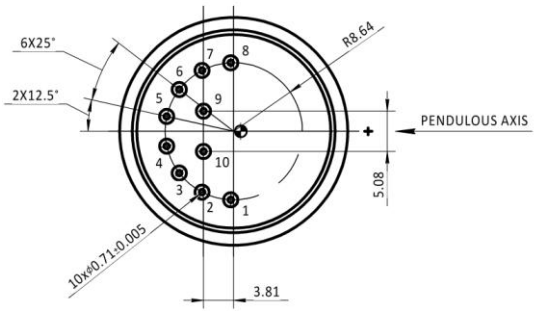
- Inertial Navigation Systems for helicopters, manned and unmanned (UAV) aircrafts
- Navigation/ orientation/ gyrocompassing systems for naval vessels, ships, submarines, ROV, AUV
- Guidance systems for strategic or tactical missiles
- Orientation systems for oil drilling industry

Technical parameters

Parameters	Units	Values
Input Range	g	±30
Bias	mg	<10
One Year Repeatability	µg	<200
Temperature Sensitivity	µg/degC	<100
Scale Factor	mA/g	1.23 … 1.43
One Year Repeatability	ppm	<200
Temperature Sensitivity	ppm/degC	<200
Axis Misalignment	µrad	<2000
One Year Repeatability	µrad	<100
Non-linearity	$\mu g/g^2$	<100
Operating Temperature	degC	-55…+85
Vibration	g, Hz	25g @ 20…2000 Hz
Shock	g	250, 8ms
Resolution	µg	<5
Bandwidth	Hz	800
Current per Supply	mA	<16
Power @ ±15 VDC	mW	<480
Input Voltage	VDC	±12 … ±18
Bias temperature model		Optional
SF temperature model		Optional
Size	mm	Ø 28.7 x 20.83
Weight	g	<50
Case Material		Stainless Steel

Accelerometer dimensions drawing (mm):





Connector PIN description:

PIN	Signal
1	Signal out
2	Current torque
3	-12 to -18 VDC
4	+12 to +18 VDC
5	NC
6	Temperature sensor output
7	Voltage self test
8	Signal and power return
9	- 9VDC
10	+ 9VDC

Disclaimer: *the document is subject to change without notice. INNALABS reserves the right to make changes to any product or technology herein. INNALABS does not assume any liability arising out of the application or use of the product.*

© 2011, NNALABS®
This document contains information proprietary to INNALABS

Address: Landyshevaya str., 12, Moscow, Russian Federation 125466
Tel/Fax: + 7 499 500 5098,
www.innalabs.com, contact.sales@innalabs.com