



LANDINS

POSITION & ORIENTATION SYSTEM

A dedicated land survey solution, LANDINS provides 3D position, heading, roll and pitch. It offers high-accuracy position and orientation data in real-time, even in tough environmental conditions, and therefore saves on overall survey time.

FEATURES

- High performances FOG
- GPS and Distance Measurement Systems hybridization algorithms
- Accept C/A, differential GPS, RTK
- Rugged solid-state sensors
- Single housing integrated system

BENEFITS

- High accuracy 3D position, heading, roll, pitch at high update rate
- GPS dropout resistant, real-time performance optimization
- Plug-and-play compatible with most GPS
- Vibration / shocks resistant, low maintenance
- Small, lightweight, fast and easy installation



APPLICATIONS • Road and railway survey • GIS • Inland mining • Vehicle dynamics testing

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TECHNICAL SPECIFICATIONS

PERFORMANCE

Aiding	DGPS	RTK
True heading accuracy (deg) rms	0.01	0.01
Roll/Pitch accuracy (deg) rms	0.01	0.01
Position accuracy X and Y (m) rms	1	0.035
Position accuracy Z (m) rms	1.5	0.05

PERFORMANCE DEGRADATION DURING GPS OUTAGES

Outage duration (seconds)	15	30	60	120
Aiding	rtk	rtk	rtk	rtk
True heading accuracy (deg) rms	0.01	0.01	0.01	0.01
Roll/Pitch accuracy (deg) rms	0.01	0.01	0.01	0.01
Position accuracy X and Y (m) rms	0.07	0.10	0.15	0.25
Position accuracy Z (m) rms	0.07	0.1	0.15	0.25

PHYSICAL CHARACTERISTICS

	IMU	GPS	Odometer	GPS
Weight	4 kg	According	0,2 kg	According
Volume	4 dm ³	to customer	0,2 dm ³	to customer
Power	15 W	requirements	1 W	requirements

OPERATING RANGES

Operating temperature	-10 to 50 °C / 15 to 120 °F
Storage temperature	-40 to 80 °C / -40 to 175 °F
No latitude limitation	
No attitude limitation	

INTERFACES

Input formats	Based on GPS industry standards (NMEA0183...) Including all leading GPS manufacturers
Data output rate	100 Hz (200 Hz optional)
RS232/422	3 outputs (Ethernet optional)
Output formats	library of selectable ASCII or binary formats (NMEA0183 included)
Power supply	24 V nominal

Specifications subject to change without notice