

Inertial Navigation Systems Terra INS Family



Terra 10



Terra 100



Terra 1000 NF

High-Accuracy Land Navigation Systems

Kearfott's Terra Family of Land Inertial Navigation Systems (INS) employs the latest closed-loop Fiber Optic Gyro (FOG) technology, providing fast, high-precision, autonomous navigation.

These Terra INS systems are ITAR free, deliver heading and pointing accuracy in GNSS-denied environments, and meet military standards MIL-STD 810, MIL-STD 461, and MIL-STD-1275. The Terra INS Family also has very high MTBF and requires no periodic maintenance.

Features & Benefits

- ✓ High Performance in the GPS-Denied Battlefield
- ✓ Supports Both Static & On-The-Move Alignment
- ✓ Pure Inertial Gyrocompassing
- ✓ Cost-Effective Solution for Land Platforms
- ✓ Supports Turret & Weapon Station Pointing, Stabilization, & Alignment
- ✓ ITAR Free

Terra INS Family Product Specifications

<i>System Characteristics</i>				
Weight	18 lbs (8.2 kg) (Terra-100)			
Power	<30 W			
Modes of Operation	Inertial Mode, Hybrid Mode (Inertial + GPS)			
<i>Operational Ranges</i>				
Temperature	-40° to 160°F (-40° to 71°C)			
<i>Input/Output</i>				
Power Input	28 VDC, MIL-STD-1275B			
Interface	RS-422, Ethernet, Other Optional Interfaces			
<i>Performance Characteristics</i>	<i>Grade 5</i>	<i>Grade 10</i>	<i>Grade 100</i>	<i>Grade 1000 (NF)</i>
Heading Accuracy (sec (lat))	≤8-17 mils	≤5-10 mils	≤1-5 mils	0.3 mils
Position (GPS-Denied, odometer, aiding)	≤1% DT	≤0.5% DT	≤0.25% DT	<u>N/A</u>