



# **TALIN** **MARINE INERTIAL NAVIGATION SYSTEM (MINS)**

Proven technology for precise marine navigation, pointing and stabilization

**Honeywell**

# TALIN MINS

## Precise, reliable, best-value for marine navigation

TALIN MINS is built with Honeywell's industry-leading, high-accuracy ring laser gyros and accelerometers for unparalleled performance. With over 16,000 TALIN systems deployed by land, air and sea, Honeywell's inertial systems represent a proven, battle-tested solution.

Developed specifically for the unique requirements of the naval market, the TALIN MINS provides data on heading, pitch and roll, angular velocity and surge/heave/sway combining the capabilities of an Inertial Navigation System (INS) and an Attitude Heading and Reference System (AHRS) in a single solution.

Applications for TALIN MINS include submarines, frigates, corsairs and autonomous underwater vehicles.

### Versatile and reliable

- The TALIN MINS is easily installed and can be hard mounted in any orientation, providing superior accuracy and reliability with Mean Time Between Failure (MTBF) > 50,000 hours
- Smaller, lighter and more reliable than other leading solutions
- Our GPS embedded gTALIN option offers a GPS-precision position and ensures a stable, robust navigation solution
- Meets requirements for both navigation and weapons stabilization

### Configurable

Performance levels are configurable to meet a range of price and capability requirements. From the high-value TALIN MINS 2000 to the exceptionally-accurate TALIN MINS 6000 we offer the right combination of price and performance for your application.



### TECHNICAL SPECIFICATIONS

#### Dimensions (excluding flanges and connectors):

- Approx. 5.4 H x 7.6 W x 8.6 L inches
- Approx. 14 H x 19 W x 22 L cm

**Weight:** < 13 pounds (<6kg)

**Power supply:** < 30 watts DC

**Environment:** Sealed and hardened against humidity, salt fog, sand, dust, solar radiation.

Can be washed down with a fire hose and can continue to function.

**Interface:** Standard: 1553A&B/RS\_422/RS\_232 serial host interface

Optional: Additional RS\_422/RS\_232 data interface, turret encoder and laser range finder

PERFORMANCE	TALIN 2000	TALIN 3000	TALIN 4000	TALIN 5000	TALIN 6000
Horizontal Pos					
CEP (nm/8hr)	5.0 nm/ 8hr	3.0 nm/ 8hr	2.0 nm/ 8hr	1.5 nm/ 8hr	1.0 nm/ 8hr
CEP (nm/24hrs)	6.5 nm/24hrs	3.5 nm/24hr	2.5 nm/24hr	2.0 nm/24hr	1.5 nm/24hr
Heading/Pointing Accuracy					
Sec (lat)	5.7 arcmin	2.9 arcmin	1.4 arcmin	1.0 arcmin	0.7 arcmin
Specified Accuracy (RMS) at ±65°lat	<13.5 arcmin	<6.8 arcmin	<3.4 arcmin	<2.4 arcmin	<1.7 arcmin
Pitch and Roll Accuracy (RMS)	<3.4 arcmin	<3.4 arcmin	<1.7 arcmin	<1.2 arcmin	<0.8 arcmin
Max Alignment Time					
Maximum Static Align Time– (65°lat)	<5.0 minutes	<5.0 minutes	<10.0 minutes	<15.0 minutes	<20.0 minutes
Typical Alignment Time (28°Latitude)	<2.5 minutes	<3.0 minutes	<4.5 minutes	<5.5 minutes	<6.0 minutes

Values shown are per definitions in TALIN system specification

### For more information

[aerospace.honeywell.com/talin](http://aerospace.honeywell.com/talin)

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