HONEYWELL TALIN™ 1000

Gyro-Compassing Self-Alignment Capability, ITAR free, 5-mil Heading Accuracy Performance

TALIN™ 1000

Honeywell’s TALIN™ 1000 is the newest addition to the TALIN Family. It provides self-alignment capability with a 5-mil heading accuracy performance in GPS denied environments for land navigation positioning and pointing applications, at a low cost, size, and weight, while relying on TALIN’s leading inertial technology, navigation robustness, and high reliability.

<table>
<thead>
<tr>
<th>Performance Level</th>
<th>TALIN 1000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Horizontal Position</td>
<td></td>
</tr>
<tr>
<td>INU/VMS (% of DT CEP)</td>
<td>0.7</td>
</tr>
<tr>
<td>INU Only (m CEP)</td>
<td>50</td>
</tr>
<tr>
<td>Vertical Position</td>
<td></td>
</tr>
<tr>
<td>INU/VMS (% of DT CEP)</td>
<td>0.4</td>
</tr>
<tr>
<td>INU Only (m PE)</td>
<td>45</td>
</tr>
<tr>
<td>Heading Pointing Accuracy</td>
<td></td>
</tr>
<tr>
<td>RMS (mils, ±65° Lat)</td>
<td>5</td>
</tr>
<tr>
<td>Sec Lat (mils)</td>
<td>3</td>
</tr>
<tr>
<td>Pitch/Roll Accuracy</td>
<td></td>
</tr>
<tr>
<td>RMS (mils)</td>
<td>2</td>
</tr>
</tbody>
</table>

APPLICATIONS

- Tactical Military Vehicles – Infantry Fighting Vehicles and Armored Personnel Carriers
- Secondary Safety Navigation System for Indirect Fire
- Mobile Radars – Towed and man-portable radars
- Commercial Applications – Maritime, Oil & Gas, Mining, Construction, Geological Survey

System Features

- Alignment/Initialization
  - On-the move alignment
- Export Control
  - Not ITAR Controlled
- Performance
  - 5 mils heading accuracy
- Improved SWaP
  - Dimensions: 5.6H x 5.8W x 8.6L inches
  - Weight: <11 pounds (<5 kg)
  - Power: <20 W
- Interfaces
  - Ethernet & RS-422
- Embedded GPS Option
  - SAASM (P/Y Code) and Commercial (C/A Code) GPS receivers
  - Growth path to M-code
- Reliability (TALIN Demonstrated)
  - MTBF>50,000 hours
- Variants
  - High-G
    - North Finder
- Diagnostics
  - Supported by TALIN ACCESS Diagnostics tool

1 Standard Functional Shock Profile of 30 G for 18 ms half sine wave pulse. High-G Functional Shock Profile of 30 G for 11 ms half sine wave pulse.

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