

# TruePoint™ Compass Module HMR3500

The HMR3500 TruePoint™ compass module is a 3-axis digital compass solution with a customizable coordinate system for mounting in any desired orientation. Three Anisotropic Magneto-Resistive sensors and three MEMs accelerometers are combined to provide compass heading as well as pitch and roll angles.

The HMR3500 has provisions for hard and soft-iron correction algorithms to handle magnetic distortion effects. In addition a World Magnetic Model feature is provided to automatically add declination angle corrections for reference to true north (geographic north).

Honeywell provides product excellence and performance by introducing innovative solid-state magnetic sensor solutions. These are highly reliable, top performance products that are delivered when promised. Honeywell's magnetic sensor products provide real solutions you can count on.



## FEATURES

- ▶ Precision Compass Accuracy
- ▶ Tilt-Compensated
- ▶ Update Rate to 25Hz
- ▶ Compact Solution in a 1.97" by 1.65" by 0.52" PCB Assembly
- ▶ Hard and Soft-Iron Compensation Routines
- ▶ World Magnetic Model Included
- ▶ -40° to +85°C Operating Temp Range
- ▶ +5 DC Supply Voltage Range
- ▶ Light Weight
- ▶ Customizable Coordinate System
- ▶ All Solid State Components

## BENEFITS

- ▶ Better Than 1° Nominal Heading Accuracy (1  $\sigma$ ), 0.1° Resolution
- ▶  $\pm 89^\circ$  Pitch and Roll, 360° Continuous Roll Capability
- ▶ Rapid Heading Computations for Guidance Applications
- ▶ Small Size for Tight Mounting Conditions, Minimal Layout Constraints
- ▶ User Driven Calibration to Null Stray Fields, A Single Routine for Both Hard and Soft Iron Corrections
- ▶ Choice of True North or Magnetic North References
- ▶ Consumer and Industrial Environment Uses
- ▶ Customizable to a Wide Variety of Power Sources
- ▶ 3.0 oz with Aluminum Housing, 0.6 oz PCB only
- ▶ 24 Custom Coordinate Orientations
- ▶ Rugged for User-Defined Orientation Plane

# Truepoint Compass Module Hmr3500 Honeywell

**RJ Alexander**



**Truepoint Compass Module Hmr3500 Honeywell:**

Truepoint Compass Module Hmr3500 Honeywell: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Truepoint Compass Module Hmr3500 Honeywell : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens' "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Paffen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is an exceptional and gripping novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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**Table of Contents Truepoint Compass Module Hmr3500 Honeywell**

1. Understanding the eBook Truepoint Compass Module Hmr3500 Honeywell
  - The Rise of Digital Reading Truepoint Compass Module Hmr3500 Honeywell
  - Advantages of eBooks Over Traditional Books
2. Identifying Truepoint Compass Module Hmr3500 Honeywell
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Truepoint Compass Module Hmr3500 Honeywell
  - User-Friendly Interface
4. Exploring eBook Recommendations from Truepoint Compass Module Hmr3500 Honeywell
  - Personalized Recommendations
  - Truepoint Compass Module Hmr3500 Honeywell User Reviews and Ratings
  - Truepoint Compass Module Hmr3500 Honeywell and Bestseller Lists
5. Accessing Truepoint Compass Module Hmr3500 Honeywell Free and Paid eBooks
  - Truepoint Compass Module Hmr3500 Honeywell Public Domain eBooks
  - Truepoint Compass Module Hmr3500 Honeywell eBook Subscription Services
  - Truepoint Compass Module Hmr3500 Honeywell Budget-Friendly Options
6. Navigating Truepoint Compass Module Hmr3500 Honeywell eBook Formats
  - ePub, PDF, MOBI, and More
  - Truepoint Compass Module Hmr3500 Honeywell Compatibility with Devices
  - Truepoint Compass Module Hmr3500 Honeywell Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Truepoint Compass Module Hmr3500 Honeywell
  - Highlighting and Note-Taking Truepoint Compass Module Hmr3500 Honeywell
  - Interactive Elements Truepoint Compass Module Hmr3500 Honeywell
8. Staying Engaged with Truepoint Compass Module Hmr3500 Honeywell

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Truepoint Compass Module Hmr3500 Honeywell
- 9. Balancing eBooks and Physical Books Truepoint Compass Module Hmr3500 Honeywell
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Truepoint Compass Module Hmr3500 Honeywell
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Truepoint Compass Module Hmr3500 Honeywell
  - Setting Reading Goals Truepoint Compass Module Hmr3500 Honeywell
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Truepoint Compass Module Hmr3500 Honeywell
  - Fact-Checking eBook Content of Truepoint Compass Module Hmr3500 Honeywell
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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