

1 Overview

This document describes the format and usage of NMEA messages for Orion GPS navigation software. It also details the implementation specifics of NMEA input commands and output sentences supported by Orion.

2 Message Format

Orion NMEA messages conform to the NMEA-0183 Ver. 3.01 (January 1, 2002) standard with implementation specifics as noted below.

Commands start with a dollar-sign ("\$\$"), followed by "PUNV", and a comma (","). The command text (which is defined in section 4) comes next, followed by an asterisk ("*"), two-digit hexadecimal checksum, and the <carriage return> <new line> characters.

Example:

```
$PUNV,<command>*cc<carriage return><new line>
```

2.1 Checksum Calculation

In accordance with NMEA-0183, the checksum is calculated by taking the 8 bit exclusive OR of all characters between (but not including) the "\$" and the "*". The checksum is then appended after the "*" as a 2 character hexadecimal number.

If a command's checksum is omitted or illegal the command will be rejected and an error message issued.

A command with the checksum value "cc" (two lower case "c" characters) will be accepted as valid (this is primarily used for testing purposes).

2.2 Sentence Termination Delimiter

All sentences end with the sentence termination delimiter <carriage return><new line>. This combination is "\n" in C-language format and hexadecimal ASCII values are 0Dh 0Ah. Both characters are required for a command to be recognized.

2.3 NMEA Message Sizes

In accordance with NMEA-0183, the maximum number of characters between the starting delimiter "\$" and the terminating <CR><LF> should be 79. That is, the maximum needed buffer size should be 82 for one output sentence.

For input NMEA commands, the maximum size accepted is 128 characters.

Orion Gps Manual

Michael Carroll



Orion Gps Manual:

Admiralty Navigation Manual ... Great Britain. Admiralty,1954 **Admiralty Navigation Manual ... 1938** Great Britain. Admiralty,1938 The NexStar User's Guide Michael Swanson,2004-01-30 Michael Swanson s online discussions with literally thousands of NexStar owners made it clear that there was a desperate need for a book such as this one that provides a complete detailed guide to buying using and maintaining NexStar telescopes Although this book is highly comprehensive it is suitable for beginners there is a chapter on Astronomy Basics and experts alike Celestron s NexStar telescopes were introduced in 1999 beginning with their first computer controlled go to model a 5 inch More models appeared in quick succession and Celestron s new range made it one of the two dominant manufacturers of affordable go to telescopes **Cornell CubeSat GPS System - Design of Cougar Receiver for Ionospheric Scintillation Research** Samson Yao,2002 **Study of a GPS Receiver for the Investigation of Ionospheric Scintillations** Zhuoyan Cai,2002 Guidance and Control 2008 Michael E. Drews,Robert D. Culp,2008 Back to the Moon Travis S. Taylor,Les Johnson,2010-12-01 THE SECOND TIME AROUND IS HARDER Decades after the last footprints were left on the Moon the U S was preparing to return to the Lunar surface in a new class of rockets when the mission suddenly became much more urgent It would have to be a rescue mission Unbeknownst to the rest of the world China had sent its own Lunar expedition A manned expedition Until a distress call was received no human outside of China even knew that the mission was manned or that their ship had crash landed and couldn t take off again Time was running out and if the four Chinese astronauts were to be rescued the American lunar mission would have to launch immediately with only a skeleton crew Once the heroic U S astronauts were underway the army of engineers and scientists back home had the daunting task of deciding what equipment could be left on the Moon to permit the Lunar lander vehicle vehicle to lift safely from the Moon with the two U S astronauts and the four stranded Chinese taikonauts Could the U S mount such a mission successfully and would thousands of years of instilled honor _allow the Chinese astronauts to accept a rescue At the publisher s request this title is sold without DRM Digital Rights Management *Proceedings of the 44th Annual American Astronautical Society Guidance, Navigation, and Control Conference, 2022* Matt Sandnas,David B. Spencer,2024-03-30 This conference attracts GN C specialists from across the globe The 2022 Conference was the 44th Annual GN C conference with more than 230 attendees from six different countries with 44 companies and 28 universities represented The conference presented more than 100 presentations and 16 posters across 18 topics This year the planning committee wanted to continue a focus on networking and collaboration hoping to inspire innovation through the intersection of diverse ideas These proceedings present the relevant topics of the day while keeping our more popular and well attended sessions as cornerstones from year to year Several new topics including Autonomous Control of Multiple Vehicles and Results and Experiences from OSIRIS REx were directly influenced by advancements in our industry In the end the 44th Annual GN C conference became a timely reflection of the current state

of the GN C ins the space industry The annual American Astronautical Society Rocky Mountain Guidance Navigation and Control GN C Conference began 1977 as an informal exchange of ideas and reports of achievements among guidance and control specialists local to the Colorado area Bud Gates Don Parsons and Bob Culp organized the first conference and began the annual series of meetings the following winter In March 1978 the First Annual Rocky Mountain Guidance and Control Conference met at Keystone Colorado It met there for eighteen years moving to Breckenridge in 1996 where it has been for over 25 years

The Seventh Landing Michael Carroll,2009-08-15 It s been thirty five years since people last trod the dusty plains of the Moon Over the course of six landings from 1969 to 1972 twelve men explored four wheeled dug and hiked across the lunar surface Now NASA has plans for a seventh landing on the Moon This time they want to stay NASA s plans dubbed the Constellation architecture involve the largest launch vehicle ever built new types of propulsion and a six person vehicle to ferry crews from Earth to the Moon But NASA s plans go far beyond Luna Eventually the lessons learned on the Moon s outpost at Shackleton Crater will teach us how to live permanently on the most Earthlike world in our solar system Mars NASA will have company plans for future lunar exploration are being drawn by Europe Japan China and India While specific hardware and mission details will be in flux for some time the overarching goals strategies and inspiration for the seventh landing will not change This book will choose a typical scenario for getting to the Moon that embraces the spirit of exploration embodied by NASA s Constellation architecture Each chapter moves from a general description to the specific nuts and bolts of engineering and science The Seventh Landing reveals the very latest strategies for how we ll get to the Moon what we know today what we want to find out and what life will be like at the first true outposts on the Moon and Mars

CubeSat Richard Jiwoong Hwang,2004 *CubeSat* Jeannette Lukito,2004 **Resource Units for Teachers in Pre-flight Aeronautics** University of Minnesota,1942 The product of the workshop participants almost sixty teachers and school administrators who discussed available material on aviation and who observed and criticized the work done with fifteen pupils enrolled in the University high school *Our Navy, the Standard Publication of the U.S. Navy*,1925 *World War Veterans' Legislation* United States. Congress. House. Committee on World War Veterans' Legislation,1939 *Yankee R. N.* Alex H. Cherry,1951 **Empires Of The Sea** Radhika Seshan,2024-02-21 An enthralling journey through 2 000 years of India s steadfast relations with the seas The Indian Ocean world s significance in human history is impossible to dismiss The 1 000 odd kilometres of the subcontinent s coastline which underpinned some of the world s greatest empires and shaped countless human lives therefore make for the perfect dock from which to embark on a journey through the centuries for a vital reappraisal of India s history In this eye opening book noted historian Radhika Seshan sets out to map our age old connections with the seas tracing maritime linkages from the Harappan period all the way to the long colonial era Her re examination of India s past through the prism of water reveals the extent to which this conduit enabled trade and the movement of people often leading to the establishment of crucial ports communities kingdoms and empires The Chola

Chalukya and Vijayanagar empires historic ports such as Muziris and Bharuch and accounts of travellers explorers merchants and monarchs who frequented India s shores are explored here in vivid detail with the sea providing a riveting backdrop of adventure migration invasion and rich cultural networks While the arrival of the Europeans the subsequent Raj and their consolidation of terrestrial networks marked the gradual decline of our maritime dominance the seas hold sway over our geopolitics even today Combining scholarly rigour with a storyteller s flair Empires of the Sea presents India afresh as a nation of pluralities made possible by virtue of its long standing maritime relations with the world at large **Jane's**

International Defense Review ,2000 EASTCON Record ,1970 *Scientific and Technical Aerospace Reports* ,1995

SBD-3 Dauntless & the Battle of Midway Daniel V. Hernández,2003

The book delves into Orion Gps Manual. Orion Gps Manual is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Orion Gps Manual, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Orion Gps Manual
- Chapter 2: Essential Elements of Orion Gps Manual
- Chapter 3: Orion Gps Manual in Everyday Life
- Chapter 4: Orion Gps Manual in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Orion Gps Manual. The first chapter will explore what Orion Gps Manual is, why Orion Gps Manual is vital, and how to effectively learn about Orion Gps Manual.
3. In chapter 2, this book will delve into the foundational concepts of Orion Gps Manual. The second chapter will elucidate the essential principles that must be understood to grasp Orion Gps Manual in its entirety.
4. In chapter 3, the author will examine the practical applications of Orion Gps Manual in daily life. The third chapter will showcase real-world examples of how Orion Gps Manual can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Orion Gps Manual in specific contexts. The fourth chapter will explore how Orion Gps Manual is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Orion Gps Manual. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Orion Gps Manual.

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Orion Gps Manual Introduction

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