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Space engineering - Gyros terminology and performance specification

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

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Space engineering - Gyros terminology and performance specification

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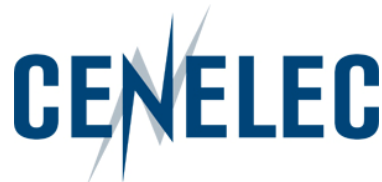
Raumfahrttechnik - Kreiselinstrumente - Terminologie und Leistungsspezifikation

This European Standard was approved by CEN on 11 July 2018.

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**CEN-CENELEC Management Centre:
Rue de la Science 23, B-1040 Brussels**

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European Foreword

This document (EN 16603-60-21:2018) has been prepared by Technical Committee CEN-CENELEC/TC 5 "Space", the secretariat of which is held by DIN.

This standard (EN 16603-60-21:2018) originates from ECSS-E-ST-60-21C.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by March 2019, and conflicting national standards shall be withdrawn at the latest by March 2019.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document has been prepared under a standardization request given to CEN by the European Commission and the European Free Trade Association.

This document has been developed to cover specifically space systems and has therefore precedence over any EN covering the same scope but with a wider domain of applicability (e.g. : aerospace).

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Introduction

This Standard is intended to support the variety of space borne gyros either available or under development, with the exception of the gyros used for the launch vehicles.

This standard defines the terminology and specifications for the functions and performance of gyros used on spacecraft. It focuses on the specific topics to be found in the gyros procurement specification documents and is intended to be used as a structured set of systematic provisions.

This standard is split in three main clauses:

- Terminology (clause 3)
- Functional requirements (clause 4)
- Performance requirements (clause 5)

NOTE This standard does not contain textbook material on gyro technology. The readers and the users are assumed to possess general knowledge of gyro technology and its applications to space missions.

1 Scope

This Standard specifies gyros functions and performances as part of a space project. This Standard covers aspects of functional and performance requirements, including nomenclature, definitions, functions and performance metrics for the performance specification of spaceborne gyros.

The Standard focuses on functional and performance specifications with the exclusion of mass and power, TM/TC interface and data structures.

When viewed from the perspective of a specific project context, the requirements defined in this Standard can be tailored to match the genuine requirements of a particular profile and circumstances of a project.

The requirements verification by test can be performed at qualification level only or also at acceptance level. It is up to the Supplier, in agreement with the customer, to define the relevant verification approach in the frame of a specific procurement, in accordance with clause 5.2 of ECSS-E-ST-10-02.

The present standard does not cover gyro use for launch vehicles.

This standard can be tailored for the specific characteristics and constraints of a space project in conformance with ECSS-S-ST-00.

2**Normative references**

The following normative documents contain provisions which, through reference in this text, constitute provisions of this ECSS Standard. For dated references, subsequent amendments to, or revision of any of these publications, do not apply. However, parties to agreements based on this ECSS Standard are encouraged to investigate the possibility of applying the more recent editions of the normative documents indicated below. For undated references, the latest edition of the publication referred to applies.

EN reference	Reference in text	Title
EN 16601-00-01	ECSS-S-ST-00-01	ECSS system - Glossary of terms

koniec náhľadu – text ďalej pokračuje v platenej verzii STN