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ICS 33.030
CCS M04

YD

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YD/T 4182-2023

General indicators and test methods for low-speed unmanned system navigation and positioning

低速无人系统导航定位通用指标及测试方法

(English Translation)

Issued on: April 21, 2023 **Implemented on: August 1, 2023**

Issued by: Ministry of Industry and Information Technology

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1 Foreword

YD/T 4182-2023 was issued by Ministry of Industry and Information Technology on 21 April 2023 and has been in force since 1 August 2023.

The YD/T prefix marks a recommended standard. It is not law in itself: it becomes binding when a contract names it, when a regulation or a mandatory standard refers to it, or when a producer declares conformity with it.

The document runs to 15 pages in English translation.

2 Scope Preview

This standard specifies common indicator items for low-speed unmanned system navigation and positioning, including positioning measurement, environmental perception, planning and control, as well as the test conditions and test methods corresponding to the indicator items. This standard is applicable to but not limited to the measurement of objective technical indicators of low-speed unmanned systems using navigation and positioning technologies such as laser navigation and positioning, wireless navigation and positioning, visual navigation and positioning, infrared navigation and positioning, ultrasonic navigation and positioning, and global satellite navigation and positioning. Note: The low speed of unmanned systems defined in this standard means that the ground operating speed does not exceed 30km/h, and the maximum level flight speed in the air does not exceed 54km/h.

YD/T 4182-2023 falls under ICS 33.030, in the field of telecommunications.

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This catalogue holds 3,420 other YD/T standards in that field.

In this catalogue, YD/T standards carry edition years from 1982 to 2026.

3 About this standard

Sector: Telecommunication Industry Standard (Recommended)

Issued by: Ministry of Industry and Information Technology

English translation: about 15 pages (approximate)

4 Related standards

Standards on related subjects:

YD/T 2583.18-2019 - Requirement and measurement methods of electromagnetic compatibility for cellular mobile telecommunication equipment - Part 18: 5G user equipment and ancillary equipment

YD/T 2583.14-2013 - Requirements and measurement methods of electromagnetic compatibility for cellular mobile telecommunications equipment. Part 14: LTE user equipment and ancillary equipment

YD/T 2436-2012 - Technical requirements and measurement method of the interface of multi mode terminal equipment

YD/T 5271-2026 - Technical Specifications for Software Defined Optical Network Engineering

YD/T 5115-2026 - Technical Specification for Mobile Communication Repeater Engineerin

YD/T 2583.1-2026 - Requirements and measurement methods of electromagnetic compatibility for cellular Mobile telecommunications equipment - Part 1: Base station and ancillary equipment

5 Classification and status

International classification (ICS): 33.030

Chinese Standard Classification (CCS): M 04

Prefix YD/T: recommended standard.

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