

**INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

JT/T 1302.1-2019

**Vehicle drivers training time recording system - Part 1:
Technical requirements for time recording terminal**

机动车驾驶员计时培训系统 第1部分：计时终端技术要求 清晰版

(English Translation)

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Foreword

JT/T 1302 "Timer Training System for Motor Vehicle Drivers" is divided into two parts.

--- Part 1. Technical requirements for timing terminals;

--- Part 2. Platform technical specifications.

This part is the first part of JT/T 1302.

This section is in accordance with GB/T Draft the rules given in 1-2009.

This section is proposed by the Transportation Services Department of the Ministry of Transport.

This section is under the jurisdiction of the National Technical Committee for Road Transport Standardization (SAC/TC 521).

This section was drafted. Highway Research Institute of the Ministry of Transport, China Communications and Communication Center, Guangdong Road Transport Administration, China Road Road Transport Association, Anhui Vocational College of Transportation.

1 Scope

This part of JT/T 1302 specifies the general requirements, functional requirements, and performance requirements for timing terminals of motor vehicle driver timing training systems.

And installation requirements.

This section applies to the training of motor vehicle driver training organizations to organize classroom teaching, simulated driving training and actual driving operation training.

A timing terminal used to record information such as trainee hours.

2 Normative references

The following documents are essential for the application of this document. For dated references, only the dated version applies to this article. For undated references, the latest version (including all amendments) applies to this document.

GB/T 7408 Data Element and Interchange Format Information Exchange Date and Time Representation GB/T 16649. 1 Identification cards with integrated circuit cards with contacts-Part 1. Physical characteristics GB/T 16649. 2 Identification of integrated circuit cards with contacts-Part 2. Contact size and location GB/T 1726. 2 Electromagnetic compatibility test and measurement technology Electrostatic discharge immunity test GB/T 1951 Test methods for electrical disturbances caused by electrostatic discharge on road vehicles GB/T 21437. 2 Electrical disturbances caused by conduction and coupling on road vehicles Part 2. Electrical transient conduction along power lines General technical requirements of GA 450 desktop resident ID reader JT/T 794 Technical requirements for on-board terminals of satellite positioning systems for road transport vehicles JT/T 808 Terminal communication protocol and data format of road positioning vehicle satellite positioning system QD/T 1539 Technical requirements and test methods for reliability of mobile communication handsets ISO/IEC 14443. 1. Identification cards. Contactless integrated circuit cards. Proximity cards. Part 1. Physical characteristics (Identification) Cards-Contacts insitute citricity card cadds-Proximity card-Part 1. Phystic chartertics

3 Terms and definitions, abbreviations

3.1

Terms and definitions the following terms and definitions apply to this document.

3. 1. 1

Timing terminal timing terminal it is used to collect, store and transmit the training information of trainees, such as teaching items, teaching content, training duration, and coaching information.

???. End equipment.

Note: According to different teaching items, timing terminals are divided into classroom teaching timing terminals, simulation training timing terminals and vehicle timing terminals.

3. 1. 2

Classroom teaching timing terminal timing terminal timing countering it is used to collect, store and transmit the teaching content, training time, and coach teaching of students participating in theoretical knowledge classroom teaching training.

Information terminal equipment.

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3. 1. 3

Timing terminal for simulation training, terminal, ter, sim, sim, sim, etc.

It is used to collect, store and transmit the teaching content, training duration, and coaching information of trainees in simulated driving training.

Terminal Equipment.

3. 1. 4

Vehicle timing terminal Timor Terring Terminal for Vice it is installed in the teaching vehicle and is uniquely associated with the teaching vehicle. It is used to collect, store and transmit trainees to participate in actual driving training.

Training content, training duration, training mileage, vehicle running position, driving speed, and images of trainees and coaches during teaching and other terminal equipment.

Note: According to the form of the device, the vehicle timing terminal is divided into fixed terminal equipment and mobile terminal equipment.

3. 1. Five

Sign-in duration duratin of singning the length of time from a trainee's sign-in to the trainee's check-out during a training session.

3. 1. 6

Training duration duratio of val training During a training session, the timing terminal detected the length of time during which the trainees were in effective training.

3. 1. 7

Information record card information card A smart card used to record and identify student or coach identity information, as well as training information or terminal device parameter setting information.

3.2

Acronyms

The following abbreviations apply to this document.

CDMA. Code Division Multiple Access (Cold Division Multiple Access) CDMA.2000. Code

Division Multiple Access.2000 (Cold Division Multiple Acces.2000) CIF. Common Intermediate Format (Common Intermediate Format) FDD_LTE. Long-Term Evolution of Frequency Division Duplex (Frequen Division Duplex Long Term Evoluion) GSM. Global System for Mobile Communications (Global System for Mobile Mobile Communications) IP. Internet Protocol (Internet Protocol) JPEG. Joint Photographic Experts Group Format (Joint Photograms Excels Group) TDD_LTE. Time-division long-term evolution (Tim Division Long Term Evoluion) TDQSCDMA. Time Division Synchronous Code Multiple Access (Time Divison Syndication Coding Division Acces) USB. Universal Serial Bus (Universal Serial Bus) WCDMA. Wideband Code Division Multiple Access (Wide Band Audience Multiple Accesses)

4 General requirements

4.1

timing terminal composition

4.1.1

The classroom teaching timing terminal and simulation training timing terminal are mainly composed of the following hardware equipment and software.

- a) CPU, data storage, real-time clock, display, operation keys and at least one USB data communication interface, etc., and an identity verification module or device corresponding to the identity verification mode;
- b) Monitor terminal software for class hours.

4.1.2

The classroom teaching timing terminal and simulation training timing terminal should have voice reading, image or video information acquisition modules or devices.

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4.1.3

Vehicle-mounted timing terminals using fixed terminal equipment, except 1. In addition to the requirements of Section 1, satellite positioning modules, Line data transmission module, as well as modules or devices such as voice reading, image or video acquisition, and vehicle status information acquisition.

4.1.4

The vehicle-mounted timing terminal using mobile terminal equipment is mainly composed of the following parts.

- a) a vehicle electronic identification that is uniquely associated with the teaching vehicle;
- b) Integrated central processing unit, data storage, real-time clock, satellite positioning