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

GB/T 25890.8-2010

**Railway applications -- Fixed installations -- DC switchgear -- Part 7-2:
Measurement, control and protection devices for specific use in d.c. traction
systems -- Isolating current transducers and other current measuring devices**

轨道交通 地面装置 直流开关设备 第7-2部分：直流牵引供电系统专用测量、控制
和保护装置 隔离电流变送器和其他电流测量设备

(English Translation)

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Foreword

GB/T 25890 "Light Rail DC switchgear apparatus" consists of the following components.

- Part 1. General;
- Part 2. DC circuit breaker;
- Part 3. Indoor dc isolation switch, load switch and earthing switch;
- Part 4. Outdoor DC isolation switch, load switch and earthing switch;
- Part 5. DC surge arresters and low voltage limiters;
- Part 6. DC switchgear equipment;
- Part 7-1. DC traction power supply system-specific measurement, control and protection devices Application Guide;
- Part 7-2. DC traction power supply system-specific measurement, control and protection devices for isolating current transducers and other current measuring equipment;
- Part 7-3. DC traction power supply system-specific measurement, control and protection devices and other isolated voltage transducer voltage measurement equipment.

This is Part 7-2 GB/T 25890 of.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This section uses the translation method identical with IEC 61992-7-2:2006 "Light Rail DC switchgear apparatus 7-2 Part I. DC traction power supply system-specific measurement, control and protection devices for isolating current transducers and other current measuring devices "(in English).

Correspondence with consistency in this section of our normative references the following

documents.

--- GB/T 24338.1-2009 rail Electromagnetic compatibility - Part 1. General (IEC 62236-1:2003, IDT);

--- GB/T 24338.3-2009 rail Electromagnetic compatibility Part 3-1. Rolling stock train and vehicle (IEC 62236-3-1:2003, IDT);

--- GB/T 24338.4-2009 rail Electromagnetic compatibility Part 3-2. Rolling stock equipment (IEC 62236-3-2.

2003, MOD);

--- GB/T 24338.5-2009 rail Electromagnetic compatibility - Part 4. Emission and immunity of the signaling and telecommunications apparatus (IEC 62236-4:2003, IDT);

--- GB/T 24338.6-2009 rail Electromagnetic compatibility - Part 5. Anti-emission and ground power units and equipment scrambling Degree (IEC 62236-5:2003, IDT).

This section proposed by the People's Republic of China Ministry of Railways.

This part of the National electric traction equipment and systems Standardization Technical Committee (SAC/TC278) centralized.

This section is responsible for drafting unit. China Railway Electrification Survey Design and Research Institute Limited.

Participated in the drafting of this section. The Siyuan Group Co., Ltd., Tianjin Hyflux Electric Company.

1 Scope

This section GB/T 25890 specifies the current transmitter isolation and other current measuring facilities and for rail transport dc ground means Desired amount of equipment.

The transmitter is usually installed between the primary-side switchboard equipment sensors or rail and the secondary side equipment to provide electrical input and output insulation.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 25890.1-2010 Light Rail system DC switchgear - Part 1. General (IEC 61992-1. 2006, IDT)

IEC 62236 (all parts), Railway applications - Electromagnetic compatibility

(Railway application-Electromagnetic compatibility) EN50124-1:2001 Railway applications - Insulation coordination - Part 1. General requirements and creep voids all electrical and electronic equipment Variable distance (Railway application-Insulation coordination-Part 1. Basic requirements-Clearances and creepage distances for electrical and electronic equipment)

3 Terms and Definitions

Terms and definitions GB/T 25890.1-2010 established applicable to this document.

4 Operating Conditions

When the device is mounted on the apparatus and equipment GB/T 25890 stipulated, consistent with their working conditions and equipment and complete sets of equipment.

In this section, EN50124-1. Pollution Level PD4 and overvoltage category described in 2001 (see GB/T 25890.1-2010 Notes to Table 1) is considered normal working conditions.

Normal operating conditions, see GB/T 25890.1-2010 Appendix B.

5.1.1 Overview

Isolation transmitter once the same insulation level insulation class and the main circuit side and the secondary side connection terminals.