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

GB/T 6809.9-2013

Replacing GB/T 6809.9-2007

**Reciprocating internal combustion engines -- Vocabulary of
components and systems -- Part 9: Control and monitoring
systems**

往复式内燃机 零部件和系统术语 第9部分：监控系统

(English Translation)

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Table of Contents

- Foreword
- 1 Scope
- 2 Normative references
- 3 Terms and Definitions
- 3.1 General terms

Foreword

GB/T 6809 "Reciprocating internal combustion engine components and systems" is divided into nine sections.

- Part 1. Structure and external covers;
- Part 2. Valves, camshaft drive and actuating mechanisms;
- Part 3. The main moving parts;
- Part 4. Pressure charging and exhaust systems;
- Part 5. Cooling system;
- Part 6. Lubricating systems;
- Part 7. Governing systems;
- Part 8. Starting systems;
- Part 9. monitoring system.

This part of GB/Part 9 T 6809's.

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

This Part replaces GB/T 6809.9-2007 "Reciprocating internal combustion engine components and systems - Part 9. Monitoring System." versus GB/T 6809.9-2007 compared to the main changes as follows.

- Modify the normative references (see Chapter 2);
- Terminology and definitions have been reclassified;
- Modify some of the terms (see 3.1.9,2007 Version 5.2.4);
- Modify some definitions of terms.

This section uses the translation method identical with ISO 7967-9:2010 "Reciprocating internal combustion engine components and systems - Part 9. SUPERVISION Control System "(in English).

Consistency correspondence between this part of international documents and normative references of our files are as follows.

--- GB/T 1883.1-2005 Reciprocating internal combustion engines - Vocabulary - Part 1. engine design and operation (ISO 2710-1.

2000, IDT);

--- GB/T 1883.2-2005 Reciprocating internal combustion engines - Vocabulary - Part 2. Terms for engine maintenance (ISO 2710-2:1999, IDT).

This part is proposed by China Machinery Industry Federation.

This part of the internal combustion engine by the National Standardization Technical Committee (SAC/TC177) centralized.

This section is drafted. Guangxi Yuchai Machinery Co., Ltd., Shanghai Institute of the internal combustion engine, the Snow Dragon Group Co., Ltd.

1 Scope

GB/T 6809 This section specifies the terms and reciprocating internal combustion engine control system related.

ISO 2710 provides a classification of reciprocating internal combustion engines and sets out the basic terms of this engine and its working and features.

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.

ISO 2710 (all parts) reciprocating internal combustion vocabulary
(Reciprocatinginternalcombustionengines-Vocab-ulary)

3.1 General terms

3.1.1

System

A collection of related components composed by performing the specified functions to achieve a given goal.

3.1.2

Control

Specific measures to achieve the stated objectives and the system or by the system be taken.

NOTE: In addition to the control measures themselves, but also control including monitoring and protection.

3.1.3

Monitoring to observe the operation of the system or system parts made so by detecting the incorrect function to verify the correct function.

NOTE: This value is measured and compared with a predetermined value or more is achieved by a variable measurement system.

3.1.4

Control system control system the engine and/or its associated systems in controlled conditions in the system to maintain the expected values.

3.1.5

Monitoring system for the running of the engine system or components continuous monitoring system.

3.1.6

Controlled conditions controlled condition A requirement to maintain physical condition or system design.

3.1.7

Expected value desired value System design requires controlled conditions should be maintained values.