
**Freight containers — Electronic seals —
Part 2:
Application requirements**

*Conteneurs pour le transport de marchandises — Scellés
électroniques —*

Partie 2: Exigences d'applications



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Foreword

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The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

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

ISO 18185-2 was prepared by Technical Committee ISO/TC 104, *Freight containers*, Subcommittee SC 4, *Identification and communication*.

ISO 18185 consists of the following parts, under the general title *Freight containers — Electronic seals*:

- *Part 1: Communication protocol*
- *Part 2: Application requirements*
- *Part 3: Environmental characteristics*
- *Part 4: Data protection*
- *Part 5: Physical layer*

Introduction

This part of ISO 18185 was prepared by ISO Technical Committee 104/Subcommittee 4/Working Group 2, using the drafting conventions of ISO/IEC Directives, Part 2.

This part of ISO 18185 provides a system for the identification and presentation of information about freight container electronic seals. The identification system provides an unambiguous unique identification of the container seal and its status.

The presentation of this information is provided through a radio-communications interface providing seal identification and a method to determine whether a freight container's seal has been opened.

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Freight containers — Electronic seals —

Part 2: Application requirements

1 Scope

This part of ISO 18185 specifies a freight container seal identification system, with an associated system for verifying the accuracy of use, having:

- a seal status identification system;
- a battery status indicator;
- a unique seal identifier including the identification of the manufacturer;
- a seal (tag) type.

This part of ISO 18185 is used in conjunction with the other parts of ISO 18185.

It applies to all electronic seals used on freight containers covered by ISO 668, ISO 1496-1 to ISO 1496-5, and ISO 8323. Wherever appropriate and practicable, it also applies to freight containers other than those covered by these International Standards.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 8601, *Data elements and interchange formats — Information interchange — Representation of dates and times*

ISO/TS 14816, *Road transport and traffic telematics — Automatic vehicle and equipment identification — Numbering and data structure*

ISO 17712, *Freight containers — Mechanical seals*

ISO 18185-1, *Freight containers — Electronic seals — Part 1: Communication protocol*

ISO 18185-3, *Freight containers — Electronic seals — Part 3: Environmental characteristics*

ISO 18185-5, *Freight containers — Electronic seals — Part 5: Sensor interface*

ISO/IEC 19762-1, *Information technology — Automatic identification and data capture (AIDC) techniques — Harmonized vocabulary — Part 1: General terms relating to AIDC*

ISO/IEC 19762-3, *Information technology — Automatic identification and data capture (AIDC) techniques — Harmonized vocabulary — Part 3: Radio frequency identification (RFID)*