

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Lightning protection system components (LPSC) –  
Part 5: Requirements for earth electrode inspection housings and earth  
electrode seals**

**Composants des systèmes de protection contre la foudre (CSPF) –  
Partie 5: Exigences pour les regards de visite et les joints des électrodes de  
terre**



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ICS 29.020, 91.120.40

ISBN 978-2-8322-7934-2

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**LIGHTNING PROTECTION SYSTEM COMPONENTS (LPSC) –****Part 5: Requirements for earth electrode inspection housings  
and earth electrode seals**

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IEC 62561-5 has been prepared by IEC technical committee 81: Lightning protection. It is an International Standard.

This third edition cancels and replaces the second edition published in 2017. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- a) A classification of earth electrode seals has been added.

The text of this International Standard is based on the following documents:

Draft	Report on voting
81/738/FDIS	81/753/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/publications](http://www.iec.ch/publications).

A list of all parts in the IEC 62561 series, published under the general title *Lightning protection system components (LPSC)*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under [webstore.iec.ch](http://webstore.iec.ch) in the data related to the specific document. At this date, the document will be

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- withdrawn, or
- revised.

## INTRODUCTION

This part of IEC 62561 deals with the requirements and tests for lightning protection system components (LPSC), specifically earth electrode inspection housings and earth electrode seals, used for the installation of a lightning protection system (LPS) designed and implemented according to the IEC 62305 series [1]<sup>1</sup>.

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<sup>1</sup> Numbers in square brackets refer to the Bibliography.

## LIGHTNING PROTECTION SYSTEM COMPONENTS (LPSC) –

### Part 5: Requirements for earth electrode inspection housings and earth electrode seals

#### 1 Scope

This part of IEC 62561 specifies the requirements and tests for earth electrode inspection housings (earth housings) installed in the earth and for earth electrode seals.

Lightning protection system components (LPSC) can also be suitable for use in hazardous atmospheres. For this reason, there are additional requirements when installing the components under such conditions.

NOTE Different requirements and test procedures are given in the EN 124 series [2] and the EN 1253 series [3].

#### 2 Normative references

There are no normative references in this document.

#### 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- IEC Electropedia: available at <https://www.electropedia.org/>
- ISO Online browsing platform: available at <https://www.iso.org/obp>

##### 3.1

##### **earth electrode inspection housing**

metallic or non-metallic enclosure that houses the down conductor and earth termination connection for inspection and testing purposes and consists of a housing and a removable lid

##### 3.2

##### **earth electrode seal**

water pressure seal used in conjunction with an earth electrode that passes through or enters the foundation or wall of the building, preventing ground water from entering the building

##### 3.3

##### **earth electrode**

part or group of parts of the earth termination system which provides direct electrical contact with and disperses the lightning current to the earth

EXAMPLE Earth rods, earth conductors and earth plates.