

INTERNATIONAL STANDARD

NORME INTERNATIONALE

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

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



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INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

COMMISSION
ELECTROTECHNIQUE
INTERNATIONALE

PRICE CODE
CODE PRIX

ICS 29.020; 91.120.40

ISBN 978-2-88912-558-6

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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

FOREWORD

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

The text of this standard is based on the following documents:

FDIS	Report on voting
81/391/FDIS	81/399/RVD

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

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all the 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 publication will remain unchanged until the stability date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

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INTRODUCTION

This Part 5 of IEC 62561 deals with the requirements and tests for lightning protection system components (LPSC) used for the installation of a lightning protection system (LPS) designed and implemented according to IEC 62305 series of standards.

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LIGHTNING PROTECTION SYSTEM COMPONENTS (LPSC) –

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

1 Scope

This Part 5 of IEC 62561 specifies the requirements and tests for

- earth electrode inspection housings (earth pit),
- earth electrode seals.

Lightning protection system components (LPSC) may also be suitable for use in hazardous atmospheres. Regard should then be taken of the extra requirements necessary for the components to be installed in such conditions.

NOTE Different requirements and test procedures are given in EN 124 and EN-1253-1.

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.

IEC 62305 (all parts), *Protection against lightning*

IEC 62305-3, *Protection against lightning – Part 3: Physical damage to structures and life hazard*

3 Terms and definitions

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

3.1

earth electrode inspection housing

metallic or non-metallic enclosure that houses the down conductor/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 rod electrode that passes through the foundation of the building, so preventing ground water from entering the building

4 Requirements

4.1 General

All earth electrode inspection housings and earth electrode seals shall be so designed and constructed that in normal use their performance is reliable and without danger to persons and the surrounding.