



National Standards Authority of Ireland

STANDARD

I.S. EN 61241-1:2004

ICS 29.260.20

**ELECTRICAL APPARATUS FOR USE IN THE
PRESENCE OF COMBUSTIBLE DUST PART 1:
PROTECTION BY ENCLOSURES "TD" (IEC
61241-1:2004)**

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EUROPEAN STANDARD

EN 61241-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2004

ICS 29.260.20

English version

Electrical apparatus for use in the presence of combustible dust
Part 1: Protection by enclosures "tD"
(IEC 61241-1:2004)

Matériels électriques pour utilisation
en présence de poussières combustibles
Partie 1: Protection par enveloppes "tD"
(CEI 61241-1:2004)

Elektrische Betriebsmittel zur Verwendung
in Bereichen mit brennbarem Staub
Teil 1: Schutz durch Gehäuse "tD"
(IEC 61241-1:2004)

This European Standard was approved by CENELEC on 2004-06-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of document 31H/168/FDIS, future edition 1 of IEC 61241-1, prepared by SC 31H, Apparatus for use in the presence of combustible dust, of IEC TC 31, Electrical apparatus for explosive atmospheres, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61241-1 on 2004-06-01.

This part of EN 61241 is to be read in conjunction with EN 61241-0.

The following dates were fixed:

- latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 2005-03-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2007-06-01

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61241-1:2004 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60079-0	NOTE	Harmonized as EN 60079-0:2004 (not modified).
IEC 60079-7	NOTE	Harmonized as EN 60079-7:2003 (not modified).
IEC 60093	NOTE	Harmonized as HD 429 S1:1983 (not modified).
IEC 60192	NOTE	Harmonized as EN 60192:2001 (not modified).
IEC 60216-1	NOTE	Harmonized as EN 60216-1:2001 (not modified).
IEC 60216-2	NOTE	Harmonized as HD 611.2 S1:1992 (not modified).
IEC 60243-1	NOTE	Harmonized as EN 60243-1:1998 (not modified).
IEC 60662	NOTE	Harmonized as EN 60662:1987 (modified).
IEC 60947-3	NOTE	Harmonized as EN 60947-3:1999 (not modified).
ISO 178	NOTE	Harmonized as EN ISO 178:2003 (not modified).
ISO 527	NOTE	Harmonized in EN ISO 527 series (not modified).

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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.

NOTE Where an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60529	1989	Degrees of protection provided by enclosures (IP Code)	EN 60529	1991
A1	1999		+ corr. May A1	1993 2000
IEC 61241-0	- 1)	Electrical apparatus for use in the presence of combustible dust Part 0: General requirements	-	-

1) To be published.

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**Matériels électriques pour utilisation
en présence de poussières combustibles –**

**Partie 1:
Protection par enveloppes «tD»**

**Electrical apparatus for use in the
presence of combustible dust –**

**Part 1:
Protection by enclosures "tD"**



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