



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 50303:2001

ICS 29.260.20

**GROUP 1, CATEGORY M1 EQUIPMENT
INTENDED TO REMAIN FUNCTIONAL IN
ATMOSPHERES ENDANGERED BY
FIREDAMP AND/OR COAL DUST**

National Standards
Authority of Ireland
Dublin 9
Ireland

Tel (01) 807 3800
Tel (01) 807 3838

*This Irish Standard was
published under the
authority of the National
Standards Authority of
Ireland
and comes into effect on
January 12, 2001*

**NO COPYING WITHOUT NSAI
PERMISSION EXCEPT AS
PERMITTED BY COPYRIGHT
LAW**

© NSAI 2001

Price Code H

Údarás um Chaighdeáin Náisiúnta na hÉireann

**DECLARATION
OF
SPECIFICATION
ENTITLED**

**GROUP 1, CATEGORY M1 EQUIPMENT INTENDED TO REMAIN FUNCTIONAL IN
ATMOSPHERES ENDANGERED BY FIREDAMP AND/OR COAL DUST**

AS

THE IRISH STANDARD SPECIFICATION FOR

**GROUP 1, CATEGORY M1 EQUIPMENT INTENDED TO REMAIN FUNCTIONAL IN
ATMOSPHERES ENDANGERED BY FIREDAMP AND/OR COAL DUST**

NSAI in exercise of the power conferred by section 16 (5) of the National Standards Authority of Ireland Act, 1996 (No. 28 of 1996) and with the consent of the Minister for Enterprise, Trade and Employment, hereby declares as follows:

1. This instrument may be cited as the Standard Specification (Group 1, Category M1 equipment intended to remain functional in atmospheres endangered by firedamp and/or coal dust) Declaration, 2001.
2. (1) The Specification set forth in the schedule to this declaration is hereby declared to be the standard specification for Group 1, Category M1 equipment intended to remain functional in atmospheres endangered by firedamp and/or coal dust. The Schedule comprises the text of EN 50303:2000.
(2) The said standard specification may be cited as Irish Standard EN 50505 or as I.S. EN 50505.

EUROPEAN STANDARD

EN 50303

NORME EUROPÉENNE

EUROPÄISCHE NORM

July 2000

ICS 29 260 20

English version

**Group I, Category M1 equipment
intended to remain functional in atmospheres endangered
by firedamp and/or coal dust**

Appareils du groupe I de catégorie M1
destinés à rester en opération dans les
atmosphères exposées au grisou et/ou à
la poussière de charbon

Gruppe I, Kategorie M1 Geräte
für den Einsatz in Atmosphären,
die durch Grubengas und/oder
brennbare Stäube gefährdet sind

This European Standard was approved by CENELEC on 2000-04-01. 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, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, 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

Contents

	Page
Foreword	3
Introduction	4
1 Scope.....	4
2 Normative references	5
3 Definitions	5
4 General	7
5 Category M1 equipment having the requisite level of protection in the event of two faults occurring independently of each other	11
6 Category M1 equipment having the requisite level of protection using a second independent means	12
7 Requirements for category M1 flammable gas detectors with hot wire or hot pellistor sensing heads	16
8 Requirements for Category M1 systems	18
9 Type testing	18
10 Marking requirements.....	19
11 Instructions.....	20

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

-
- [Looking for additional Standards? Visit Intertek Inform Infostore](#)
 - [Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation](#)
-