



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 230:2005

ICS 27.060.10

National Standards
Authority of Ireland
Glasnevin, Dublin 9
Ireland

Tel: +353 1 807 3800
Fax: +353 1 807 3838
<http://www.nsai.ie>

Sales
<http://www.standards.ie>

AUTOMATIC BURNER CONTROL SYSTEMS

FOR OIL BURNERS

*This Irish Standard was
published under the
authority of the National
Standards Authority of
Ireland and comes into
effect on:
August 5, 2005*

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

© NSAI 2005

Price Code Q

Údarás um Chaighdeán Náisiúnta na hÉireann

EUROPEAN STANDARD

EN 230

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2005

ICS 27.060.10

Supersedes EN 230:1990

English version

Automatic burner control systems for oil burners

Systèmes automatiques de commande et de sécurité pour
brûleurs à fioul

Feuerungsautomaten für Ölbrenner

This European Standard was approved by CEN on 14 February 2005.

CEN 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 CEN 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 CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies 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.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

Management Centre: rue de Stassart, 36 B-1050 Brussels

Contents	Page
Foreword	3
Introduction	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	6
4 Classification.....	11
5 Normal conditions for testing and measurement tolerances	13
6 Constructional requirements	13
7 Functional requirements	17
8 Protection against environmental influences	26
9 Protection against internal faults.....	34
10 Additional requirements for complex electronics	37
11 Marking, installation and operating instructions (see also Annex C)	39
Annex A (normative) Electrical/electronic component fault modes tables	42
Annex B (informative) Functional characteristics of burner control systems, to be given by the appliance standard	45
Annex C (normative) Requirements for DC supplied burner controls.....	46
Annex D (informative) Functional diagrams of oil burner controls.....	49
Bibliography	55

Foreword

This document (EN 230:2005) has been prepared by Technical Committee CEN/TC 47 “Atomizing oil burners and their components-Function-safety-testing”, the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by December 2005, and conflicting national standards shall be withdrawn at the latest by June 2008.

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

This document supersedes EN 230:1990.

According to edition 1990 the following fundamental changes are carried out:

- protection against environmental influences;
- additional requirements for complex electronics.
- the structure and wherever possible the definitions and requirements are taken over from EN 298:2003-09.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: 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 the United Kingdom.

EN 230:2005 (E)

Introduction

Whilst this document is written primarily for Automatic Oil Burner Control Systems used on or in appliance for cooking, heating, hot water production, refrigeration, lighting or washing and having, where applicable, a normal water temperature not exceeding 105 °C, it may be usefully quoted, as a whole or in part, by standards for other equipment.

The functional characteristics of the automatic burner control systems, programming units, and their associated flame detector devices, in so far as they are not laid down in this document, are given by the standards for the appliances for which the automatic burner control systems are intended.

This document deals with immunity aspects of Electromagnetic Compatibility (EMC) only. Since automatic burner control systems are intended for use as an integrated or incorporated part of an appliance, further EMC tests (both immunity and emission) may be required for the intended use.

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](#)
-