

Australian Standard™

**Electrical and electronic ignition devices
for gas appliances**

This Australian Standard was prepared by Committee AG-011, Components and Industrial Equipment. It was approved on behalf of the Council of Standards Australia on 8 October 2004.

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AGA (Network Operators)
AGA Certification Services
Appliance and Component Testing
Australian Liquefied Petroleum Gas Association
Gas Appliance Manufacturers Association of Australia
Gas Appliances and Services Association
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PREFACE

This Standard was reviewed by the Standards Australia Committee, AG-011, Components and Industrial Equipment, to supersede AG 206—1998, *Approval requirements for electrical and electronic ignition devices for gas appliances*. The Standard is republished without technical alterations.

The objective of this Standard is to provide manufacturers, designers, regulatory authorities, testing laboratories and similar organizations with uniform minimum requirements for the safety, performance and use of electrical and electronic ignition devices for gas appliances.

This Standard should not be regarded as a design specification or as an instruction manual.

In its preparation, consideration has been given to—

- (a) continuity of satisfactory operation;
- (b) the prevention of fire hazards, and explosions;
- (c) the prevention of injury to persons or property;
- (d) gas rules and regulations now in force; and
- (e) relevant International Standards.

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the appendix to which they apply. A ‘normative’ appendix is an integral part of a Standard, whereas an ‘informative’ appendix is only for information and guidance.

Statements expressed in mandatory terms in notes to tables and figures are deemed to be requirements of this Standard.

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STANDARDS AUSTRALIA

Australian Standard**Electrical and electronic ignition devices for gas appliances**

SECTION 1 SCOPE, CLASSIFICATION AND DEFINITIONS

1.1 SCOPE

These requirements apply to electrical and electronic ignition devices for use on natural gas (NG), simulated natural gas (SNG), town gas (TG), tempered liquefied petroleum gas (TLP) and liquefied petroleum gas (LPG).

NOTE: Ignition devices do not control gas valves. Where an ignition device is incorporated in a flame safeguard or flame safeguard system, it shall meet the appropriate requirements of this Standard in addition to the requirements of AG 210 (to be AS 4625) or AS 4620.

Where an ignition device is designed to combine the functions of two or more control components, it shall comply with the requirements for each function.

Compliance of an ignition device with these requirements does not imply that it is acceptable for use without supplemental tests in its intended application.

Electrical components shall comply with the requirements of the appropriate electrical authority.

1.2 CLASSIFICATION**1.2.1 Ignition device types**

Ignition devices covered by these requirements are:

- (a) Igniters—providing a source of ignition only.
- (b) Reigniters—providing a source of ignition plus flame monitoring and a continuous reignition attempt in the event of flame failure.

1.2.2 Classification by electrical power source and type of ignition element

The devices shall be further classified according to electrical power source and type of ignition element.

1.2.2.1 *Electrical power source*

Power sources are—

- (a) mains supply (directly or via a transformer);
- (b) battery; and
- (c) piezo electric.

1.2.2.2 *Ignition element*

Ignition elements are—

- (a) filament; and
- (b) spark.