AS/NZS 3197:2005
(Incorporating Amendment Nos 1 and 2)

AS/NZS 3197:2005

Australian/New Zealand Standard™

Approval and test specification—Portable electrical control or conditioning devices

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL-004, Electrical Accessories. It was approved on behalf of the Council of Standards Australia on 20 December 2004 and on behalf of the Council of Standards New Zealand on 23 December 2004.
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The following are represented on Committee EL-004:

Australian Chamber of Commerce and Industry
Australian Electrical and Electronic Manufacturer's Association
Australian Information Industry Association
Australasian Railway Association
Canterbury Manufacturers Association NZ
Consumer Electronics Suppliers Association
Consumers' Federation of Australia
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This Standard was issued in draft form for comment as DR 04383.

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Technical Committee EL-004, *Electrical Accessories*, to supersede AS/NZS 3197:1993 on publication.

This Standard incorporates Amendments No. 1 (February 2007) and No. 2 (February 2012). The changes required by the Amendment are indicated in the text by a marginal bar and amendment number against the clause, note, table, figure or part thereof affected.

The objective of this Standard is to provide the Australian and New Zealand electrical industry including manufacturers, test laboratories and regulators with requirements and test methods for portable electrical or conditioning devices.

This Standard is one of a series of approval and test specifications to be read in conjunction with AS/NZS 3100, *General requirements for electrical equipment*. The purpose of this series is to outline conditions which must be met to secure approval for the sale and use of electrical equipment. Only safety matters and related conditions are covered.

The essential safety requirements in AS/NZS 3820 that could be applicable to portable electrical control or conditioning devices are covered by this Standard taken in conjunction with any other relevant requirements affecting safety.

This Standard was revised to introduce the following technical and editorial changes:

(a) Amendment Nos. 1, 2 and 3 to AS/NZS 3197:1993 have been incorporated into the text.

(b) Additional requirements for devices with integral pins for insertion into socket-outlets.

(c) Changes to fire test requirements.

(d) Updating of cross-references to referred Standards and other minor editorial changes.

This Standard does not include all the necessary conditions of a contract.

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1 SCOPE

This Standard specifies essential safety requirements for portable electrical control or conditioning devices as defined in Clause 4 below, which are designed for operation at low voltage and which have a maximum operating current not exceeding 20 A.

Typical examples of devices having a control or conditioning function are those which incorporate energy regulators, speed controllers, timing devices, photoelectric devices, devices actuated by sound or radiofrequency, devices actuated by signals or impulses generated remotely by manual or automatic means, movement detectors, lighting dimmers, temperature-sensitive devices, overcurrent protection devices of either the manual or automatically resetting type, voltage/frequency conditioning devices and filtering devices.

A1 Plugs within the scope of AS/NZS 3112, cord extension sockets within the scope of AS/NZS 3120, socket-outlet adaptors within the scope of AS/NZS3122 and cord extension sets within the scope of AS/NZS 3199, which incorporate control or conditioning functions are within the scope of this Standard.

A2 Electrical portable outlet devices that are within the scope of AS/NZS 3105 but having condition and control device functions, remain within the scope of AS/NZS 3105 and are tested to that standard with any additional requirements of the conditioning device of AS/NZS 3197 being applied.

This Standard does not apply to the following:

(a) Control or conditioning devices which are incorporated in an appliance.

(b) Portable residual current (earth-leakage) devices within the scope of AS/NZS 3190.

(c) Portable devices incorporating voltage transformation within the scope of the AS/NZS 61558 (all parts).

(d) Appliance connectors incorporating control facilities within the scope of AS/NZS 60320.1.

A2 (e) Plugs within the scope of AS/NZS 3112, cord-extension sockets within the scope of AS/NZS 3120 and socket-outlet adaptors within the scope of AS/NZS 3122 which incorporate indicating devices, e.g. neons, light-emitting diodes.

(f) Plugs within the scope of with AS/NZS 3112 incorporating fuses.

(g) Electrical portable outlet devices within the scope of AS/NZS 3105.

NOTE: Thermostats and energy regulators of the self-contained type but intended for independent mounting are within the scope of AS/NZS 3161.

2 APPLICATION

2.1 General requirements of AS/NZS 3100

This Standard shall be read in conjunction with AS/NZS 3100, and the appropriate provisions of AS/NZS 3100 shall apply to the construction of the control device and the insulation and safeguarding of parts which normally carry current.