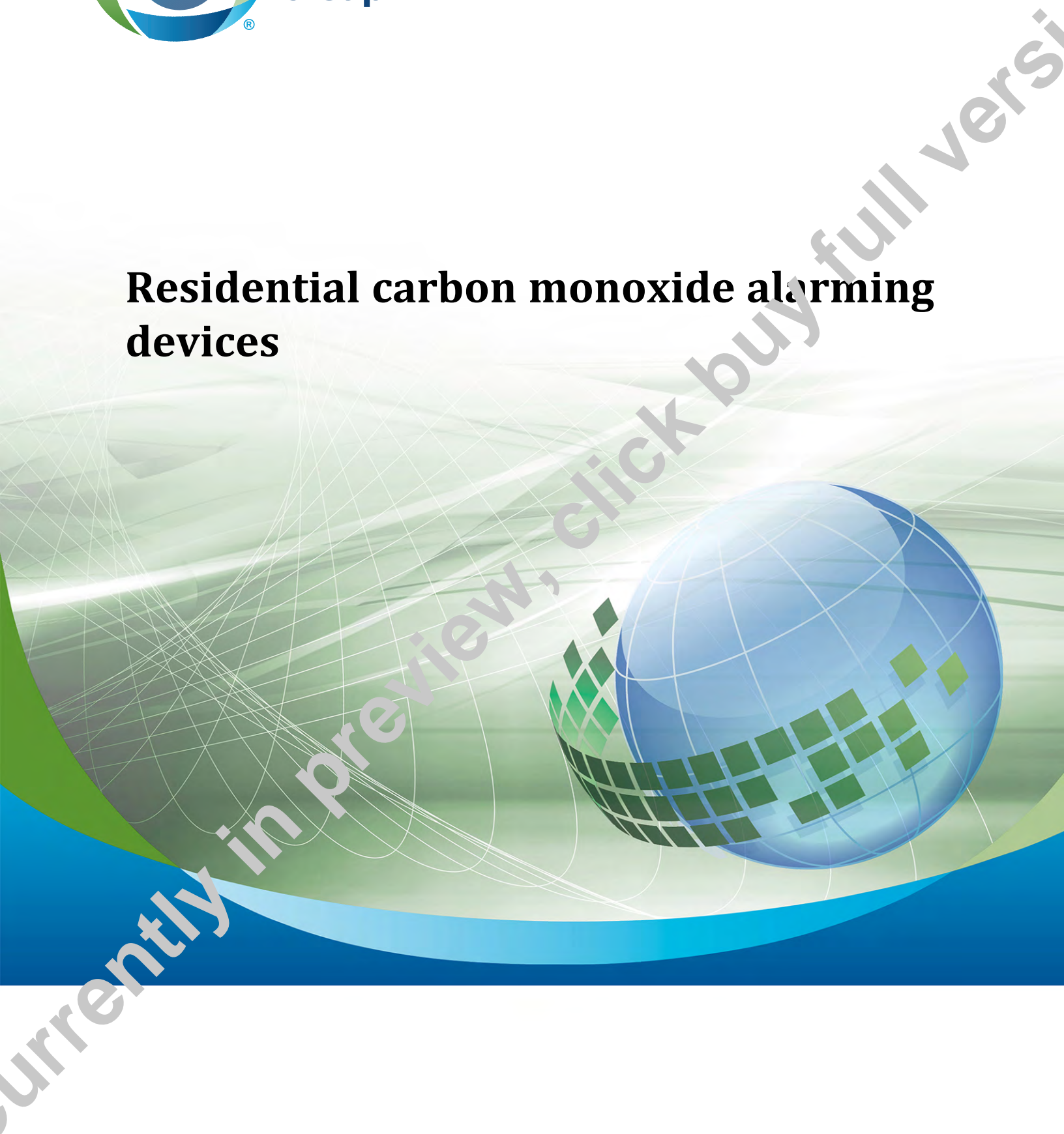




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CSA 6.19-17

Residential carbon monoxide alarming devices



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Preface

This is the second edition of CSA 6.19, *Residential carbon monoxide alarming devices*. It supersedes the previous editions published in 2001 under the title *Residential Carbon Monoxide Detectors* and in 1993 as a Canadian Gas Association Standard, CAN/CGA-6.19.

The following are the most significant changes to this edition:

- a) The Scope has been expanded to identify more clearly the living spaces to which the Standard applies. It includes ordinary indoor residential areas including dwelling units, recreational vehicles, mobile homes, unconditioned areas (e.g., cottages, cabins, attached garages), and facilities providing detention occupancy, treatment occupancy, and care occupancy, but not spaces intended for industrial or commercial applications.
- b) The Scope has been expanded to include devices that numerically display low (< 30 ppm) CO levels. This newer class of devices is not intended to provide an alarm signal during long-term, low-level CO exposures or slightly higher short-term transient CO exposure.
- c) The following definitions have been modified: sensor and trouble signal.
- d) The following definitions have been added: CO alarm with low-level CO indication, care occupancy, detention occupancy, end-of-life signal, specified operating lifetime, switching device, treatment, and treatment occupancy.
- e) Requirements respecting replacement date, warning signal, quantity indicator, and secondary power supply have been revised and requirements respecting end-of-life signal have been added.
- f) Marking requirements for AC-operated plug-in devices have been revised and marking requirements for devices with low-level CO indication have been added.
- g) Additional instructions for devices designated for low-level CO indication have been included, wording respecting symptoms of CO poisoning has been revised, and a statement clarifying the location of devices has been added.
- h) The testing methodology has been expanded to include description of a testing procedure and a testing equipment with respect to sensitivity testing for CO alarming device with low-level CO indication, and provisions for an electric shock current test.
- i) The stability testing requirements have been revised for clarity.
- j) The required time-of-manufacture reliability testing and measurement of in-service reliability have been amended to include CO devices with low-level CO indication.
- k) Permanent marking replacement date requirements for both the alarm and packaging have been added.

This Standard is considered suitable for use for conformity assessment within the stated scope of the Standard.

This Standard was prepared by the Technical Committee on Carbon Monoxide Alarms under the jurisdiction of the Strategic Steering Committee on Fuel Burning Equipment and has been formally approved by the Technical Committee on Carbon Monoxide Alarms and by the Interprovincial Gas Advisory Council.

Notes:

- 1) *Use of the singular does not exclude the plural (and vice versa) when the sense allows.*
- 2) *Although the intended primary application of this Standard is stated in its Scope, it is important to note that it remains the responsibility of the users of the Standard to judge its suitability for their particular purpose.*
- 3) *This Standard was developed by consensus, which is defined by CSA Policy governing standardization — Code of good practice for standardization as “substantial agreement. Consensus implies much more than a simple*

majority, but not necessarily unanimity". It is consistent with this definition that a member may be included in the Technical Committee list and yet not be in full agreement with all clauses of this Standard.

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CSA 6.19-17

Residential carbon monoxide alarming devices

1 Scope

1.1

This Standard applies to single- and multiple-station carbon monoxide (CO) alarming devices and the CO portion of multi-criteria and multi-sensor (combination) alarms (hereafter referred to as devices). These devices are intended for use in ordinary locations in residential occupancies and include, but are not limited to, dwelling units, recreational vehicles and mobile homes, unconditioned areas, and facilities providing detention occupancy, treatment occupancy, and care occupancy.

1.2

This Standard applies to devices that are intended to protect against acute effects of exposure to CO. Devices are intended to alarm at CO levels below those which could cause a loss of ability to react to the dangers of CO exposure.

Devices are not intended to provide an alarm signal during long-term, low-level CO exposures or slightly higher short term transient CO exposure.

Devices, including the types that numerically display low (< 30 ppm) CO levels, are not intended to provide an alarm signal during long-term, low-level CO exposures or slightly higher short-term transient CO exposure.

1.3

This Standard also applies to remote accessories that might be connected to or are intended to be employed with a single- or multiple-station CO alarm.

1.4

This Standard does not apply to

- a) smoke alarms;
- b) smoke detectors;
- c) heat detectors; and
- d) gas or vapour detectors and sensors.

Furthermore, the devices covered by this Standard are not intended for industrial and commercial applications.

1.5

In this Standard, “shall” is used to express a requirement, i.e., a provision that the user is obliged to satisfy in order to comply with the Standard; “should” is used to express a recommendation or that which is advised but not required; and “may” is used to express an option or that which is permissible within the limits of the Standard.