

STANDARD INFORMATION

Standard: ANSI Z21.23

Standard ID:

Gas Appliance Thermostats [CSA/ANSI Z21.23:2022 Ed.1]

Gas Appliance Thermostats [CSA 6.6:2022 Ed.1]

Previous Standard ID:

Gas Appliance Thermostats (R2020) [ANSI Z21.23:2010]

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: **February 1, 2024**

IMPACT, OVERVIEW, AND ACTION REQUIRED

Impact Statement: Per our accreditation, Intertek is required to review reports against the standard revisions to confirm compliance. Once compliance is confirmed, the standard reference in the report is updated to show continued compliance to the technical requirements of the standard. Reports not updated to this version by the effective date above will be withdrawn.

This new edition of ANSI Z21.23 has been renumbered to CSA/ANSI Z21.23 and has combined with CSA 6.6.

Overview of Changes:

- Additional requirements for materials
- Additional requirements for instructions
- New manufacturing and production tests

Specific details of new/revise requirements are found in table below.

Current Listings Not Active? – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records. We will do this at no charge as long as Intertek is notified in writing prior to the review of your reports.



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CLAUSE	VERDICT	COMMENT
		<i>Additions to existing requirements are <u>underlined</u> and deletions are shown lined-out below.</i>
4	Info	Construction
4.8	Info	Materials
		<i>New clause added;</i>
4.8.1		The manufacturer shall supply evidence that all materials have been evaluated and found to be suitable for their intended usage. Test data based on ASTM or other appropriate test procedures, certifications, or historical data may be submitted for this purpose. The evidence shall show that the materials have been evaluated, as appropriate for resistance to moisture, corrosion, and the effects of fuel gases, including the sulfur compounds therein, and that nonmetallic diaphragm and seal materials are suitably resistant to the effects of ozone.
		<i>New clause added;</i>
4.8.3		Materials, or coatings of materials provided with protective coatings, for automatic mechanisms and current-carrying components exposed to fuel gases shall be resistant to moisture, sulfur compounds, corrosion, and the effects of such gases. Parts containing in excess of 65% copper exposed to fuel gas, other than cast or forged bodies, shall be protected from the effects of sulfur-bearing compounds.
		Instructions
		Complete instructions covering installation and proper operation shall be furnished by the manufacturer.
		The following shall be included in these instructions; where applicable:
4.12		a) the electrical rating of the thermostat in volts, amperes, and hertz; b) maximum and minimum recommended ambient temperatures (see Clause 4.1.3); c) the type(s) of gas with which the device is intended to be used; d) electrical diagrams indicating the external connections necessary for the control's intended application(s); e) the class of transformer required, if applicable; f) information identifying parts intended for field servicing and procedures for servicing or replacing such parts; g) the following statements: "Caution: Label all wires prior to disconnection when servicing thermostats. Wiring errors can cause improper and dangerous operation" and " <u>Attention: Étiquetez tous les fils avant de les débrancher pendant l'entretien</u> "



CLAUSE	VERDICT	COMMENT
		<p><u>des thermostats. Les erreurs de câblage pourraient entraîner un fonctionnement non conforme et dangereux”;</u></p> <p>h) a step-by-step functional checkout of a replacement thermostat; and i) diagrams to illustrate the specified mounting positions.</p> <hr/> <p><i>New section added;</i></p> <p>Manufacturing and production tests</p>
6		<p>The manufacturer shall submit to the certifying agency a plan that is mutually acceptable to the manufacturer and certifying agency and that describes the programs and test procedures. See standard for details.</p> <hr/>