CERTIFICATION Notice

An Urgent Bulletin from CSA Group

Gas Products No. 340B

(Replaces Notice "Gas Products No. 340A, Ref No. N17-037" dated May 1, 2017)

See Attachment 1 for Effective Dates.

Date: August 30, 2017

See Attachment 1 for Application Due Dates

Announcing: Publication of ANSI Z21.20-2014•CAN/CSA-C22.2 NO. 60730-2-5-14 "Automatic Electrical Controls For Household And Similar Use-Part-2.5: Particular Requirements For Automatic Electrical Burner Control Systems"

See Attachment 2 for affected Class Numbers.

To purchase the Standard, visit us at www.shop.csa.ca

Who is affected?

Manufacturers of automatic electrical burner controls for household and similar use. Manufacturers of automatic burner ignition systems and components for oil and gas.

What do you do?

1. CSA Group Service Delivery staff will contact you to address compliance with each revision as applicable to the product designs covered in your affected Certification Reports. In addition to updates to your Certificate(s) of Compliance & Report(s), testing may be required to comply with these revisions.
2. Please respond within thirty (30) days of receiving CSA Group's "Application for CSA Certification Services" and "Quotation" communication. You must respond no later than the application dates listed in Attachment 1 in order to guarantee the update to your certification is completed by the corresponding effective dates shown in the same attachment. If testing is needed, we will inform you of the samples required.

Approvals:

Standard ANSI Z21.20-2014•CAN/CSA-C22.2 No. 60730-2-5-14, was published in January 2014.

The Interprovincial Gas Advisory Council (IGAC) in June 2013, and the American National Standards Institute, Inc. on September 17, 2013.

Major Revisions:

This Notice Replaces Gas Products No. 340A issued May 1, 2017. See Attachment 1 for new effective dates. See Attachment 3 for major changes.

Background and Rationale:

1. This standard is based on Particular Requirements for Automatic Electric Burner Control Systems, IEC Publication 60730-2-5, Edition 3.2: 2009 (based on Edition 3, 2000, Amendment 1, 2004 and Amendment 2, 2008).
2. This standard is harmonized to the requirements of both Canada and USA.
3. This standard supersedes the CSA C22.2 No.199-2007●ANSI Z21.20-2007and Addenda CSA C22.2 No.199a-2010●ANSI Z21.20a-2010.
4. This standard supersedes CSA C22.2 No. 199-89, and Technical Information Letter (T.I.L.) No. H18A covering interim certification requirements for burner controls incorporating programmable logic. TIL H18A is withdrawn.

For questions specific to your file or products contact your CSA Group technical staff associate.
Go to http://www.csagroup.org/services/testing-and-certification/certified-product-listing/ and enter your Master Contract # and the class numbers associated with this Notice to determine which of your products are affected.
For technical questions on this Certification Notice See Attachment 4

The standard edition or amendments announced in this Notice may be used for certification as of the date of issue of this Notice. The "Effective date" in this Notice is the date on which the current requirements, applicable to Certified products listed in the affected class numbers, expire and the standard edition or amendments announced in this Notice become the only requirements that may be used for certification.

In the event that currently certified products do not comply with the latest requirements outlined in this Notice after the "effective date", the certification of such models may be discontinued.

Visit us at www.csagroup.org where you can click on "Contact Us" for the online phone listing of our Offices and Partners.

ATTACHMENT 1

Effective Dates

a.) For Canadian certifications:
As of January 1, 2015, all new model certifications, and updates to certification reports involving alterations, will be evaluated to the requirements of ANSI Z21.20-2014•CAN/CSA-C22.2 No. 60730-2-5-14.

b.) For US certifications:
*As of October 19, 2018, all new model certifications, and updates to certification reports involving alterations, will be evaluated to the requirements of ANSI Z21.20-2014•CAN/CSA-C22.2 No. 60730-2-5-14.

c.) *As of October 19, 2023, all previously certified products for Canada and the US that have not been updated per a) or b) above, shall be in compliance with the requirements of ANSI Z21.20-2014•CAN/CSA-C22.2 No. 60730-2-5-14**. In order to meet the effective date of the Notice, all applications other than item a) or b) above, shall be received no later than December 15, 2020.**

i.) For Canadian certifications:
*As of October 19, 2023, products previously certified to CSA C22.2 No. 199-89, and Technical Information Letter (T.I.L.) No. H18A, or CSA C22.2 No.199-2007•ANSI Z21.20-2007(and Addenda CSA C22.2 No.199a-2010•ANSI Z21.20a-2010) or CAN1-6.4-M79 (R2001) shall comply with the ANSI Z21.20-2014•CAN/CSA-C22.2 No. 60730-2-5-14.

ii.) For USA certifications:
*As of October 19, 2023, products previously certified to ANSI Z21.20-2005, Z21.20a-2008, CSAC22.2No.199-2007•ANSI Z21.20-2007(and Addenda CSA C22.2 No.199a-2010•ANSI Z21.20a-2010)•UL372 Ed6, or UL372 Ed5, shall comply with the ANSI Z21.20-2014•CAN/CSA-C22.2 No. 60730-2-5-14.

*** In consultation with Industry, CSA has determined that a new effective date is necessary. The previous effective date of October 19, 2020 has been changed to October 19, 2023.**

ATTACHMENT 2

Affected Class Numbers

Item	Class No	Class Description	Remarks
1	2632 01	FUEL BURNING EQUIPMENT (GAS) - Gas Burners, Electrical Equipment for Accessories	Certified to CSAC22.2 No. 199-89, together with C22.2 No.0.8 and TIL H18A, for software. (The effective date for T.I.L. H18A, was August 14, 2007).
2	2632 81	FUEL BURNING EQUIPMENT (GAS) - Gas Burners, Electrical Equipment for Accessories- Certified to US Standards	Certified to ANSI Z21.20/UL 372
3	2632 02	FUEL BURNING EQUIPMENT (GAS) - Gas Burners, Electrical Equipment for Accessories	Certified to CSA C22.2 No. 199-2007 (Notice Gas Products No. 196 and 196A).
4	2632 82	FUEL BURNING EQUIPMENT (GAS) - Gas Burners, Electrical Equipment for Accessories- Certified to US Standards	Certified to ANSI Z21.20-2007 / UL372 Sixth Edition (Notice Gas Products No. 196 and 196A).
5	2632 03*	FUEL BURNING EQUIPMENT(GAS) - Gas Burners, Electrical Equipment for Accessories	CAN/CSA C22.2 No. 60730-2-5-2014. (Refer to note 1)

Item	Class No	Class Description	Remarks
6	2632 83*	FUEL BURNING EQUIPMENT (GAS) - Gas Burners, Electrical Equipment for Accessories- Certified to US Standards	ANSI Z21.20-2014 / UL 60730-2-5 2014. (Refer to note 1)
7	2632 51	FUEL BURNING EQUIPMENT (GAS) - Gas Burners, Electrical Equipment for Accessories	Certified to IEC730-2-5.
8	2642 01	FUEL BURNING EQUIPMENT (OIL) - Oil Burners, Electrical Equipment for Accessories	Same as for Class 2632 01.
9	2642 81	FUEL BURNING EQUIPMENT (OIL) - Oil Burners, Electrical Equipment for Accessories-Certified to US Standards	Certified to ANSI Z21.20/ UL 372.
10	2642 02	FUEL BURNING EQUIPMENT (OIL) - Gas Burners, Electrical Equipment for Accessories	Certified to CSA C22.2 No. 199-2007(Notice Gas Products No. 196 and 196A).
11	2642 82	FUEL BURNING EQUIPMENT (OIL) - Oil Burners, Electrical Equipment for Accessories-Certified to US Standards	Certified to ANSI Z21.20-2007 / UL372 Sixth Edition (Notice Gas Products No. 196 and 196A).
12	2642 03*	FUEL BURNING EQUIPMENT (OIL) - Gas Burners, Electrical Equipment for Accessories	CAN/CSA C22.2 No. 60730-2-5-2014. (Refer to note 1)
13	2642 83*	FUEL BURNING EQUIPMENT (OIL) - Oil Burners, Electrical Equipment for Accessories-Certified to US Standards	ANSI Z21.20-2014/UL 60730-2-5 2014. (Refer to note 1)
14	3302 01**	COMBINATION CONTROLS - Part 1	Certified to ANSI Z21.78•CSA 6.20; ANSI Z21.20/CSA C22.2 No. 199/UL 372. (refer note 2)
15	3302 81**	COMBINATION CONTROLS - Part 1 - Certified to US Standards	Certified to ANSI Z21.78•CSA 6.20; ANSI Z21.20/CSA C22.2 No. 199/UL 372. (refer note 2)
16	3335 01**	SYSTEMS (GAS) - Automatic Ignition and Components	Certified to C22.2 No. 199-89 and TIL H18A, for software(refer note 2)
17	3335 07**	SYSTEMS (GAS) - Oxygen Depletion Safety Shutoff	Certified to ANSI Z21.20/CSA C22.2 No. 199/UL 372. (refer note 2)
18	3335 81**	SYSTEMS (GAS) - Automatic Ignition and Components-Certified to US Standards	Certified to ANSI Z21.20 or ANSIZ21.20-2007/UL372 Sixth Edition (Notice Gas Products No. 196 and 196A). (refer note 2)
19	3335 87**	SYSTEMS (GAS) - Oxygen Depletion Safety Shutoff-Certified to US Standards	Certified to ANSI Z21.20 or ANSI Z21.20-2007/ UL 372 Sixth Edition (Notice Gas Products No. 196 and 196A). (refer note 2)

Notes:

1.) *For Class numbers 2632 and 2642 (items 1 to 13) the following applies:*
*" * " denotes only class numbers (items 5, 6, 12 and 13), that are valid after the effective date of this Notice as confirmed in Attachment-1, to incorporate the CSA mark, and meeting the requirements of the 2014 Edition.*

2.) *For Class numbers 3302 and 3335 (items 14 to 19) the following applies:*
*" ** " denotes only class numbers that are valid after the effective date of this Notice, to incorporate the CSA mark and meeting the requirements of the 2014 edition as confirmed in Attachment-1. All models meeting the requirements of the 2014 Edition will be identified as such in the certification record.*

ATTACHMENT 3

Major Revisions

See the following Attachments, for changes associated with new 2014 Edition:

i. Attachment 3A, with reference to C22.2 No. 199-2007•ANSI Z21.20-2007.
ii. Attachment 3B Addenda.
iii. See Attachment 3C (provided for information purposes only), for changes that were associated with Edition 2007, with reference to edition 2 of C22.2 No. 199-M89.

ATTACHMENT 3A

Major Revisions to the 2014 Edition, with reference to ANSI Z21.20-2007•CSA C22.2 No. 199-2007•UL372-Ed. 6

Clause	**Revisions/ Remarks**
FOREWORD,1.101DV	This Part-2 standard to be used in conjunction with CAN/CSA 60730-1Ed 4.
1.1	Includes separate electronic high voltage ignition source.
2.5	Definitions: system for permanent and non-permanent operation.
4.3.2.1	Instruction for test, ac and dc ratings.
7.2.9	T_{max} other than 60C, for ambient temperature limits of switch head.
11.3.107	Constructional requirements: Systems declared as 2.AD, and Table 7.2, requirement 102.
11.3.108,11.3.109	Additional constructional requirements.
11.4	Declarations related to Type 2 action.
8.1.101	Provision for protection against high-voltage ignition source.
11.3.110	Visible light flame simulation test.
13.2	Electric strength for high-voltage ignition source.
17.16.102	Endurance test of automatic and manual action operations at T_{MAX} and $T_{MIN,}$ further clarifications.
17.16.104	Endurance test of automatic action at accelerated rate, further clarifications
17.16.101.1	Endurance test, for declared ambient temperature above 125^0C
H.11.12.3.2	The software safety requirement specification shall include the safety functions. Software module documentation is required that is traceable to the software architecture. Coding standards are required.
H.11.12.3.3.1	Software testing of coding modules are included.
H.11.12.3.3	A test plan for software integration testing is required.
H.27.1.2.1.2	A high level description of the design (safety philosophy) is required.
H.26.5	Voltage dips and voltage interruptions conducted to IEC 61000-4-11.
H.26.5.4	Voltage variation test.
H.26.8	Surge immunity test procedure, conducted to IEC 61000-4-5.
H26.12	Radio-frequency electromagnetic field immunity, conducted and radiated.
H.26.13	Test of influence of supply frequency variations.
H.26.14	Power frequency magnetic field immunity test.
Table H.27.1	Modification to footnote 8, that provides additional measures or additional measures concerning contact welding for relays.
H.27.1.3.104	For lock-out or safety shut-down, requirement of an additional fault assessment in that stage.

ATTACHMENT 3B

Revisions to the 2014 Edition, with reference to Addendum ANSI Z21.20a-2008

Clause	Revisions/ Remarks
2.10 d	Revisions to test condition 2 (a).

ATTACHMENT 3C

(The following is provided for information purposes only as previously announced in Gas Products No. 196)

The 2007 edition, included the following changes in requirements of CSA C22.2 No. 199 – M89 Edition:

- Additional markings and documentation that is required. Requirements that are required to be declared by the manufacturer in Section 7;
- Requirements during mounting, maintenance and servicing in 11.11;
- Additional requirements concerning protection against humid conditions in 12.2;
- Additional requirements when conducting Electric Strength and Insulation Resistance. Electric strength test on the output of the high voltage circuit is outlined in 13.2;
- Amendments to higher operating ambient temperature conditions. Flame detector and proved igniter value are measured at 25°C, 0°C or Tmin, whichever is lower and 60°C or Tmax, whichever is higher in Section 15;
- Test requirements for Thermo-electric and system components in 17.1.2. Tests in clause 29A applies;
- Addition of thermal cycling test for electronic controls in 17.16.101;
- Additional requirements for actuating member or actuating means are outlined. The requirements applies to controls that are operated by push, pull, slide, toggle or lever adjustment in 18.9;
- Requirements for pilot burners, oxygen depletion safety shutoff systems and other components in Section 29A;
- Additional requirements for manufacturing and production tests. Tests to be conducted to the requirements of the applicable clauses in the standard in Section 30A;
- Requirements for electrical systems and components in Annex H;
- Requirements for controls using safety-related software in Section H11.12;
- Additional requirements for electromagnetic compatibility (EMC) requirements-immunity in Section H26;
- Requirements for software fault analysis in H27.1.3.1;
- Addition of second fault analysis in H27.1.3.101;
- Addition of table consisting of failure modes of electrical/electronic components in Annex AA.

The 2007 edition, included the following changes in requirements for ANSI Z21.20 – Fifteenth Edition and CAN1-6.4-M79 (R2001):

- Scope expanded to cover oil in 1.1;
- Definitions expanded in Section 2;
- Electrical construction requirements were revised to reflect present practices in the U.S. and Canada in Section 11;
- Effects of Humidity Variation now called Moisture Resistance. Additional requirements added in 12.2;
- Dielectric Strength now called Electric Strength and Insulation Resistance. Additional requirements when conducting Electric Strength and Insulation Resistance. Electric strength test on the output of the high voltage circuit is outlined as per 13.2;
- Timings now called Timing, Sequence and Flame Detector Characteristics. Amendments to higher operating ambient temperature conditions. Flame detector and proved igniter value are measured at 25°C, 0°C or Tmin, whichever is lower and 60°C or Tmax, whichever is higher as per Section 15;

- Mechanical Strength new in Section 18;
- New requirements for Oxygen Depletion Safety Shutoff Systems (ODS) in 29A 3.1 thru 29A 3.4;
- "Thermal Stress Test" replaces "Continued Performance in 29A5;
- Additional requirements for Manufacturing and Production Tests. Tests to be conducted to the requirements of the applicable clause in the Standard in Section 30A;
- Marking and labeling systems updated in Annex A;
- Safety Circuit Analysis replaced by Requirements for Electronic Systems and Components in Annex H;
- Additional requirements for electromagnetic compatibility (EMC) requirements-immunity in H27.1.3.1;
- Requirements of software fault analysis in H27.1.3.1;
- Addition of second fault analysis in H27.1.3.101;
- Addition of table consisting of failure modes of electrical/electronic components in Annex AA;
- Requirements for Solid-State Oil Igniters added in Annex DD;
- Addition of Markings – French Translation added in Annex EE.

The 2007 edition, included the following changes in requirements for UL 372 – Sixth Edition:

- Additional marking and instruction requirement were added to Section 7;
- The electrical construction requirements were revised to reflect present practices in the U.S. and Canada;
- Addition of mounting, maintenance and servicing requirements in 11.11;
- Addition of requirements covering protection against humid conditions in 12.2;
- Addition of requirements covering the electric strength and insulation resistance tests in section 13.2;
- Modification and addition of coverage for Timing, Sequence & Flame detector characteristics in Section 15;
- Addition of coverage for actuating members and actuating means in Section 18.9;
- Addition of requirements covering pilot burners and other components in Section 29A;
- Addition of requirements to the manufacturing and production tests;
- Miscellaneous clarifications and corrections.

ATTACHMENT 4

For technical questions on this Certification Notice

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