



Certificate of Compliance

Certificate: 70120183 **Master Contract:** 219995
Project: 80272590 **Date Issued:** 2025-11-06
Issued to: R.C. Systems LLC
13009 FM 1764
Santa Fe, Texas 77510
United States
Issued by: Andrea Ongaro
Andrea Ongaro, Product Safety
Engineer
Attention: Joshua Carter

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.



PRODUCTS

Class 4828 02 SIGNAL APPLIANCES - Toxic Gas Detection Instruments - For Hazardous Locations

Class 4828 82 SIGNAL APPLIANCES - Toxic Gas Detection Instruments - For Hazardous Locations - Certified to US Standards

Class I, Div. 1, Groups A, B, C and D, T4;

Toxic Gas Stand Alone Transmitter housed in Limatherm XP enclosure, input rated 10 to 30V dc, 10 watts max. Explosion Proof with Sensor Head 10-0247 with sensor electronics P/Ns 10-0242, 10-0415, 10-0272IR, 10-0279, 10-0381, 10-0392 or 10-0537.

Model(s)	Input Voltage (VDC)	Input Power (W max)	Ambient Temp
SenSmart 4000	10-30	10	-40°C to +60°C

Conditions of Acceptability:



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1. For Canadian Installations device in metal enclosure shall be bonded to ground according to Section 18 of the CEC, Part 1.
2. For US Installations device in metal enclosure shall be bonded to ground according to Article 501 of the NEC.
3. Conduit seal shall be installed within 18" from the enclosure.
4. For the remote installation of the sensor conduit seals shall be installed within 18" from both enclosures – the controller and the sensor.
5. Measures shall be taken to avoid an ignition due to impact for equipment in aluminum enclosure.
6. Shall be supplied by a Class 2 or limited-energy source according to CSA 61010-1-12 / ISA 61010-1 3rd Ed.
7. This equipment has been evaluated for electrical safety only. The scope of this certificate does not include the performance or reliability of gas detection.

Class I, Div. 2, Groups A, B, C and D, T4;

Toxic Gas Stand Alone Transmitter housed in Limatherm XP enclosure with 10-0247 or 10-0247IS Sensor Head or RC Systems Inc. Polycarbonate 55N5006NC(f1) enclosure, input rated 10 to 30V dc, 10 watts max. May be used with sensor electronics P/Ns 10-0415, 10-0392, 10-0272IR, 10-0279 or 10-0381.

Model(s)	Input Voltage (VDC)	Input Power (W max)	Ambient Temp
SenSmart 4000	10-30	10	-40°C to +60°C.

Conditions of Acceptability:

1. For Canadian Installations the device in metal enclosure shall be bonded to ground according to Section 18 of the CEC, Part 1.
2. For US Installations the device in metal enclosure shall be bonded to ground according to Article 501 of the NEC.
3. Polymeric enclosures manufactured by RC Systems with threaded openings are not suitable for use with rigid conduit. Wiring methods suitable for Division 2 / Zone 2 Hazardous Locations subject to acceptance by local jurisdictions having authority shall be used.
4. Measures shall be taken to avoid ignition due to impact for equipment in aluminum enclosure.
5. Sensor electronics 10-0242 with Catalytic Bead sensor cell shall only be used in explosion proof enclosure.
6. Externally powered models shall be supplied by a Class 2 or limited-energy source according to CSA 61010-1-12 / ISA 61010-1 3rd Ed.
7. This equipment has been evaluated for electrical safety only. The scope of this certificate does not include the performance or reliability of gas detection.

Class I, Div. 2, Groups A, B, C and D, T4;

Toxic Gas Stand Alone Transmitter housed in Limatherm XP enclosure with 10-0247 or 10-0247IS Sensor Head or RC Systems Inc. Polycarbonate 55N5006NC(f1) enclosure. May be used with sensor electronics P/Ns 10-0381, 10-0415, 10-0272IR, 10-0392 or 10-0279.



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Model(s)	Input Voltage (VDC)	Input Power (W max)
SenSmart 5000	10-30	10

Note: Sensor may be fitted remotely when transmitter is equipped with 10-0531, 10-0532, or 10-0738 option boards, wired to 10-2080 or 10-0643 Remote Sensor Interface PCB mounted in separate Transmitter Housing with sensor head.

Optional alarm contacts rated: 5A @ 30 Vdc & 250 Vac.

Ambient Temperature -40°C to +60°C.

Conditions of Acceptability:

1. For Canadian Installations the device in metal enclosure shall be bonded to ground according to Section 18 of the CEC, Part 1.
2. Polymeric enclosures manufactured by RC Systems with threaded openings are not suitable for use with rigid conduit. Wiring methods suitable for Division 2 / Zone 2 Hazardous Locations subject to acceptance by local jurisdictions having authority shall be used.
3. Measures shall be taken to avoid an ignition due to impact for equipment in aluminum enclosure.
4. Sensor electronics 10-0242 with Catalytic Bead sensor cell shall only be used in explosion proof enclosure.
5. Externally powered models shall be supplied by a Class 2 or limited-energy source according to CSA 61010-1-12 / ISA 61010-1 3rd Ed.
6. This equipment has been evaluated for electrical safety only. The scope of this certificate does not include the performance or reliability of gas detection.

Class I, Div. 1, Groups A, B, C and D, T4;

Toxic Gas Stand Alone Transmitter housed in Linatherm XP enclosure, input rated 10 to 30V dc, 10 watts max. Explosion Proof with Sensor Head 10-0247 with sensor electronics P/Ns 10-0242, 10-0381, 10-0415, 10-0272IR, 10-0392, 10-0279 or 10-0537.

Model(s)	Input Voltage (VDC)	Input Power (W max)	Ambient Temp
SenSmart 5000	10-30	10	-40°C to +60°C

Note: Sensor may be fitted remotely when transmitter is equipped with 10-0531, 10-0532, or 10-0738 option boards, wired to 10-2080 or 10-0643 Remote Sensor Interface PCB mounted in separate Transmitter Housing with sensor head.

Optional alarm contacts rated: 5A @ 30 VDC & 250 VAC.

Ambient Temperature -40°C to +60°C.

Conditions of Acceptability:

1. For Canadian Installations device in metal enclosure shall be bonded to ground according to Section 18 of the CEC, Part 1.
2. For US Installations device in metal enclosure shall be bonded to ground according to Article 501 of the NEC.



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3. Conduit seal shall be installed within 18" from the enclosure.
4. For the remote installation of the sensor conduit seals shall be installed within 18" from both enclosures – the controller and the sensor.
5. Measures shall be taken to avoid an ignition due to impact for equipment in aluminum enclosure.
6. Shall be supplied by a Class 2 or limited-energy source according to CSA 61010-1-12 / ISA 61010-1 3rd Ed.
7. This equipment has been evaluated for electrical safety only. The scope of this certificate does not include the performance or reliability of gas detection.

APPLICABLE REQUIREMENTS

CSA C22.2 No. 213-17 -Third Edition - Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified Locations)

CSA C22.2 No. 30-M1986 - Explosion-Proof Enclosures for Use in Class I Hazardous Locations Industrial Products - General Instruction No 1-2

UL 1203 - Fourth Edition - UL Standard for Safety Explosion-Proof and Dust-Ignition-Proof Electrical Equipment for Use in Hazardous (Classified) Locations

CAN/CSA C22.2 No. 61010-1-12 - Third Edition - Up to and including Update No. 3: June 2023 - Safety requirements for electrical equipment for measurement, control, and laboratory use — Part 1: General requirements

ANSI/UL 121201:2017 - Ninth Edition - Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations

UL 61010-1:2012 - Third Edition - Including revisions through June 6, 2023 - Electrical Equipment For Measurement, Control, and Laboratory Use; Part 1: General Requirements



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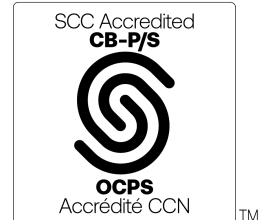
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Notes:

Products certified under Class(es) C482802, C482882 have been certified under CSA's ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). www.scc.ca





Supplement to Certificate of Compliance

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*The products listed, including the latest revision described below,
are eligible to be marked in accordance with the referenced Certificate.*

Product Certification History

Project	Date	Description
80272590	2025-11-06	Update of report 70120183 to address the following: 1. Review of CSA/UL 61010:2023 evaluation 2. Review of user manual and addition to controlled documents 3. Removal of Sensmart 8000 model
80226571	2025-03-05	Evaluation to update cCSAus report # 70120183 for the following changes: 1. Addition of alternate optional remote sensor for SenSmart 5000, 2. Addition of optional configuration for HART communications, 3. Various improvements for EMC, EMI and noise, 4. Required Testing and Evaluation 5. Update to CSA C22.2 No. 213-17 per certification notice Hazardous Locations Products No. 28. This update is supported by Attestation Letter 80226573 for ordinary locations.
80103931	2023-05-25	Update to CSA report 70120183 for minor drawings updates.
70120183	2017-07-12	Certification of toxic gas detectors: Model SenSmart 4000 and 5000: Class I, Div. 1, Groups A, B, C and D; Model SenSmart 4000, 5000, 8000 and 8000X: Class I, Div. 2, Groups A, B, C and D