



Certificate of Compliance

Certificate: 80309813 **Master Contract:** 610507
Project: 80309813 **Date Issued:** 2026-07-16
Issued to: Automation Products Group, Inc.
1025 West 1700 North Logan,
Utah 84321
United States
Attention: Robert Barson

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.



Robby Li
Issued by: Robby Li

PRODUCTS

2258 04 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations
2258 84 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe Entity - For Hazardous Locations - Certified to US Standards

Class I, Division 1, Groups A, B, C and D T4
Ex ia IIC T4 Ga
Class I, Zone 0, AEx ia IIC T4 Ga

80GHz FMCW Radar Level Transmitter model CR-L series are used for monitoring and control of filling levels by means of microwave technology. The electronics mounted in a plastic enclosure converts the reflected microwave echo, indicating the filling level, into a RS485 or 4-20mA signal.

The transmitter is equipped with an integral cable up to 200m with an NPT ¾ threaded connection. Threaded connection at the antenna side can be of NPT 1 ½, NPT 2, G ½ or G 2. Ambient and process temperature range: -40°C to +70°C. Enclosure Type 4/4X for model CR-L A4***N** ONLY.

In type of protection intrinsic safety Ex ia IIC when installed per drawing 9007010A CR-L-IS, only for connection to certified intrinsically safe circuits, with the following maximum values/entity parameters:



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CR-L A*AN** with a maximum of 200m of integral cable:**

+ (Red wire), - (Black wire)	
Entity Parameters	Ui/Vmax: 30VDC, Ii/Imax: 130mA, Pi/Pmax: 0.9W, Ci: 12nF, Li: 200μH

CR-L A*RN** with a maximum of 200m of integral cable:**

+ (Red wire), - (Black wire), RS485 A (Blue wire), RS485 B (White wire)	
Entity Parameters	Ui/Vmax: 30VDC, Ii/Imax: 300mA, Pi/Pmax: 0.9W, Ci: 12nF, Li: 200μH

Model configuration code: CR-L **abcdefgh**

a = Lens:	A: Integrated lens 8°
b = Housing Material:	2: PVDF 3: PE 4: PVDF (Type 4/4X)
c = Communication:	R: RS485 A: Two-wire, (4-20) mA
d = Process Connection:	E: Top thread NPT ¾ / Bottom thread NPT 1 ½ R: Top thread NPT ¾ / Bottom thread NPT 2 G: Thread G 1 ½ T: Thread G 2
e = Installation Bracket:	W: With installation bracket N: Without installation bracket
f = Battery:	N: Without battery
g = Measuring Range:	1: 15m 2: 30m
h = Cable length:	XXX: 1...200m

Conditions of Acceptability:

1. The non-metallic enclosure may generate an ignition-capable level of electrostatic charges under certain extreme conditions. The user should ensure that the equipment is not installed in a location where it may be subjected to external conditions (such as high-pressure steam) which might cause a build-up of electrostatic charges on non-conducting surfaces. Additionally, cleaning of the equipment should be done with a damp cloth.
2. All models of the assessed equipment are required to be connected to a properly rated I.S. barrier as per DWG 9007010A. The $U_i(V_{max})$ & $I_i(I_{max})$ parameters are the worst case voltage and current from the combination of these barriers, but they cannot appear at the same time. It is end-user's responsibility to ensure that the combined voltage and current of the connected barriers does not exceed the values of Table A.1 of CSA/UL 60079-11.
3. Maximum cable length is specified and the maximum value shall not be exceeded.



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APPLICABLE REQUIREMENTS

CSA C22.2 No. 60079-0:19 (R2024)	Explosive atmospheres - Part 0: Equipment - General requirements
CAN/CSA C22.2 No. 60079-11:14 (R2023)	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
CAN/CSA C22.2 No. 61010-1-12, UPD1:2015, UPD2:2016, AMD1:2018, UPD3:2023, UPD4:2024	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use, Part 1: General Requirements
CSA C22.2 No. 94.2:20 <i>Third Edition, October 15, 2020</i>	Enclosures for electrical equipment, environmental considerations
ANSI/UL 60079-0-2020 (R2024) <i>Seventh Edition</i>	Explosive atmospheres - Part 0: Equipment - General Requirements
ANSI/UL 60079-11-2018 (R2023) <i>Sixth Edition</i>	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
ANSI/UL 913-2022 <i>Eighth Edition</i>	Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II, III, Division 1, Hazardous (Classified) Locations
UL 61010-1 <i>3rd Edition (Rev. Nov 15, 2024)</i>	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use, Part 1: General Requirements
ANSI/UL 50E <i>3rd Edition, October 15, 2020</i>	Enclosures for electrical equipment, environmental considerations

MARKINGS

Each unit shall bear all the required markings identified in the applicable certification report(s).

Note: The Listee's name and/or CSA file number shall replace the submitter's equivalent information (where applicable).

Notes:

Products certified under Classes C225804, C225884 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
80309813	2026-07-16	Multiple Listing for Automation Products Group, Inc.
		Original Report Submitter's Model Listee's Model
		80246544 HCDAR-8H Series CR-L Series