



# Certificate of Compliance

**Certificate:** 80008037

**Master Contract:** 300292

**Project:** 80008037

**Date Issued:** 2019-08-28

**Issued To:** Otto Engineering Inc.  
10 W Main St  
Carpentersville, Illinois, 60110  
United States

**Attention:** Melanie Wieser

**Issued by:** *Zafar Iqbal*  
Zafar Iqbal



## PRODUCTS

CLASS - C222801 - RADIO APPLIANCES - Transmitters and Receivers Amateur Commercial and Communication - For Hazardous Locations

**Class I, Division 1, Groups (as noted below); Class II, Division 1, Groups E, F and G; Class III, Division 1: Class I, Division 2, Groups A, B, C and D:**

- Speaker/mic Model V2-G4KC221-S. Intrinsically Safe when used with the CSA Certified JVCKenwood Portable Radio Models listed below, per User Manual 804467.

NX-200AB/300AB, TK-5220AB/5320AB Radios (Groups ABCD)

NX-200/300, TK-5220/5320 Radios (Groups CD)

NX-3200/3300/3400 Radios (Groups ABCD)

NX-210AB, NX-410AB/411AB Radios (Groups ABCD)

NX-210, NX-410/411 Radios (Groups CD)

TK-5210/5310/5410 Radios (Group D)

NX-5200/5300/5400, TK-5230/5330/5430, VP5230/5330/5430 Radios (Groups ABCD)

VP6230/6330/6430 Radios (Groups ABCD)

Temperature Code T3C (160°C) at Ta = - 30°C to + 60°C.



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**CLASS 2228 81** - RADIO APPLIANCES - Transmitters and Receivers - Amateur, Commercial and Communication – For Hazardous Locations - Certified to U.S. Standards

**Class I, Division 1, Groups (as noted below); Class II, Division 1, Groups E, F and G; Class III, Division 1: Class I, Division 2, Groups A, B, C and D:**

- Speaker/mic Model V2-G4KC221-S. Intrinsically Safe when used with the CSA Certified JVCKenwood Portable Radio Models listed below, per User Manual 804467.

NX-200/300, NX-200G/300G, TK-5220/5320 Radios (Groups CD)

NX-3200/3300/3400 Radios (Groups CD)

NX-210, NX-410/411, NX-210G Radios (Groups CD)

TK-5210/5310/5410 Radios (Group D)

NX-5200/5300/5400, TK-5230/5330/5430, VP5230/5330/5430 Radios (Group D)

VP6230/6330/6430 Radios (Group D)

Temperature Code T3C (160°C) at Ta = - 30°C to + 60°C.

### **APPLICABLE REQUIREMENTS**

C22.2 No. 0-10	-	General Requirements - Canadian Electrical Code, Part II
CSA Std. C22.2 No. 25-1966	-	Enclosures for Use in Class II, Groups E, F and G Hazardous Locations
CAN/CSA-C22.2 No. 157-92	-	Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations
CSA-C22.2 No. 213-2017	-	Non-Incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations
UL913:1997 (5th Edition)	-	Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II, and III, Division 1, Hazardous (Classified) Locations
ANSI/ISA-12.12.01-2017	-	Nonincendive Electrical Equipment for Use in Class I and Class II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations
ANSI/TIA-4950-A-2014	-	Requirements for Battery-Powered, Portable Land Mobile Radio Applications in Class I, II, and III, Division 1, Hazardous (Classified) Locations



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## **MARKINGS**

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where applicable, in accordance with the requirements of those authorities.

The products listed are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US (indicating that products have been manufactured to the requirements of both Canadian and U.S. Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only.

Refer to Descriptive Documents for label details.



## *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**

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<b>Project</b>	<b>Date</b>	<b>Description</b>
80008037	2019-08-28	Original Certification for Speaker/Microphone Model V2-G4KC221-S for use with all certified JVCKenwood radios for Class I and II for US/Canada.