

IECEx Certificate of Conformity

Certificate No.: IECEx UL 22.0016 Page 2 of 4

Date of issue: 2022-11-30 Issue No: 1

Manufacturer: Otto Engineering Inc.

2 East Main Street Carpentersville, IL 60110 United States of America

Manufacturing Otto Engineering Inc.

locations: 2 East Main Street
Carpentersville, IL 60110
United States of America

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS:

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements

Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

Edition:6.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

US/UL/ExTR22.0018/00 US/UL/ExTR22.0018/01

Quality Assessment Report:

US/UL/QAR06.0010/11



IECEx Certificate of Conformity

Certificate No.: IECEx UL 22.0016 Page 3 of 4

Date of issue: 2022-11-30 Issue No: 1

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The devices covered by this certificate are intrinsically safe headsets with microphones. Power is provided though a permanently connected cable and connector assembly with intrinsic safety entity parameters assigned. The headsets may be provided with an optional push-to-talk (PTT) button

Please see Annex for additional information.

SPECIFIC CONDITIONS OF USE: NO



IECEx Certificate of Conformity

Certificate No.: **IECEx UL 22.0016** Page 4 of 4

Date of issue: 2022-11-30 Issue No: 1

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)Issue 1: Helmet-mounted Models V4-11228-S, V4-11229-S, and V4-11236-S were added.

Annex:

Annex to IECEx UL 22.0016 Issue 1.pdf



IECEx Certificate of Conformity

Certificate No.: IECEx UL 22.0016 Issue No.: 1

Page 1 of 2

TYPE DESIGNATION

Nomenclature for type ClearTrak NRX:

Models differ in features such as housing color, type of cable connector, and presence of PTT button. The following models of the ClearTrak NRX headsets are covered by this certificate:

Model V4-11222-S

Model V4-11223-S

Model V4-11226-S

Model V4-11227-S

Model V4-11228-S (helmet mount)

Model V4-11229-S (helmet mount)

Model V4-11230-S

Model V4-11231-S

Model V4-11232-S

Model V4-11233-S

Model V4-11234-S

Model V4-11235-S

Model V4-11236-S (helmet mount)

PARAMETERS RELATING TO THE SAFETY

Intrinsic safety entity parameters:

Ui = 9.6 V

Ii = 360 mA

Pi = 1.25W

 $Li/Ri = 43.2 \mu H/\Omega$

Ci = 36 nF

MARKING

Marking has to be readable and indelible; it has to include the following indications:

SERIAL No: Job Number

Class II, Div 1, Groups E,

Class I, Div 1, Groups A, B,

, C, D , П ົດ

WARNING – Refer to manual for Intrinsically Safe Instructions / Reportez-vous au manuel pour les instructions à sécurité intrinsèque 804495 Class I, Zone 0, AEx ia IIC T4 Ga Ex ia IIC T4 Ga Class III, Div 1, T4









-30°C<Ta<+75°C Ex ia IIC T4 Ga IECEx UL 22.0016

i or Imax = 360mA Ui or Vmax = 9.6V



IECEx Certificate of Conformity

Certificate No.: IECEx UL 22.0016 Issue No.: 1

Page 2 of 2

sécurité intrinséque 804501 manuel pour les instructions à Instructions / Reportez-vous au

manual for Intrinsically Safe WARNING - Refer to Class I, Zone 0, AEx ia IIC T4 Ga Ex ia IIC T4 Ga

Class I, Div 1, Groups A, B, C, D Class II, Div 1, Groups E, F, G Class III, Div 1, T4 SERIAL No: Job Number Radio Device For Use In Hazardous Locations



MODEL: V4-11229-S ONLY AS TO INTRINSIC SAFETY





Carpentersville, IL 60110 OTTO Engineering, Inc 2 East Main Street



Ex ia IIC T4 Ga UL 22 ATEX 2711 -30°C<Ta<+75°C Ex ia IIC T4 Ga IECEX UL 22.0016 li or lmax = 360mA Pi or Pmax = 1.25W Li/Ri = 43.2uH/ohm Ci = 36nF Ui or Vmax = 9.6V