

CERTIFICATE

(1) EU-Type Examination

(2) **Equipment or protective systems intended for use in potentially explosive atmospheres - Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number: **DEKRA 18ATEX0064 X** Issue Number: **2**

(4) Product: **Inear Headset (Microphone/speaker), model SEN490**

(5) Manufacturer: **VOGO**

(6) Address: **Immeuble les Centuries II, 101 Place Pierre Duhem, 34000 Montpellier, France**

(7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) DEKRA Certification B.V., Notified Body number 0344 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential test report number 222811600 Issue 1.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0 : 2012 + A11 : 2013

EN 60079-11 : 2012

except in respect of those requirements listed at item 18 of the Schedule.

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

(12) The marking of the product shall include the following:



II 2 G Ex ib IIC T4 Gb
II 2 D Ex ib IIIC T135 °C Db

Date of certification: 5 December 2019

DEKRA Certification B.V.

R. Schuller
Certification Manager

(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate DEKRA 18ATEX0064 X**

Issue No. 2

(15) **Description**

Model SEN490 is an in-ear speaker and microphone, the assembly consists of two separated circuits, one for speaker (one ear) and one for microphone (opposite ear). Both speaker and microphone are enclosed in metallic enclosure. Both speaker and microphone are connected to single 6 pin connector (2 times 2 wire circuit) with 1 meter cable.

Electrical data

Signal and supply circuits of model SEN490 :
in type of protection intrinsic safety Ex ib IIC, only for connection to a certified intrinsically safe circuit, with the following maximum values (combining the parameters of all circuits):
 $U_i = 5 \text{ Vdc}$; $I_i = 65 \text{ mA}$; $P_i = 325 \text{ mW}$; $C_i \leq 3 \text{ nF}$; $L_i \leq 1,31 \text{ mH}$

Installation instructions

The instructions provided with the product shall be followed in detail to assure safe operation.

(16) **Report Number**

No. 222811600 Issue 1.

(17) **Specific conditions of use**

Ambient temperature range: $-10^\circ\text{C} \leq T_a \leq +45^\circ\text{C}$.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. 222811600 Issue 1.

(20) **Certificate history**

Issue 0 -	222811600	initial certificate
Issue 1 -	224205300	manufacturer name change
Issue 2 -	224205300	manufacturer address corrected