

(1) **EU-Type-Examination Certificate**

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



(3) **Certificate Number** TÜV CY 23 ATEX 0206798 X

(4) for the equipment: I.S. Digital Radio
Type: DP810; DP815

(5) of the manufacturer: **Kirisun Communication Co., Ltd.**

(6) Address: 3rd Floor, Building A, Tongfang Information Harbour, No.11
Langshan Road, Xili Street, Nanshan District, Shenzhen, 518057
Guangdong, China

Order number: 0206798

Date of issue: 2023-03-21

(7) The design of this equipment or protective system and any acceptable variation thereto are specified in the schedule to this EU-Type-Examination Certificate and the documents therein referred to.

(8) TÜV CYPRUS Ltd, notified body No. 2261 in accordance with Article 17 of the Council Directive of 2014/34/EU of February 26, 2014, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive. The examination and test results are recorded in the confidential report No. 23 0206798.


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

EN IEC 60079-0:2018 **EN 60079-11:2012**

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EU-Type-Examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment which are not covered by this certificate.

(12) The marking of the equipment or protective system must include the following:

 **II 2G Ex ib IIC T4 Gb**
II 2D Ex ib IIIC T120°C Db

The head of the notified body,

D. Demosthenous

TÜV CYPRUS
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2261

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Accredited by CYS-CYSAB
Certificate No. C 004-2

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Excerpts or changes shall be allowed by the TÜV CYPRUS Ltd

(13) **SCHEDULE**

(14) **EU-Type-Examination Certificate No. TÜV CY 23 ATEX 0206798 X**

(15) Description of equipment

The I.S. Digital Radio Type DP810 and DP815 are communication devices which can be used in explosive atmospheres. The type DP810 has LCD and keypad on the front of the I.S. Digital Radio and type DP815 is a simplified version without such options. The product is designed according to type of protection 'Ex ib'.

The I.S. Digital Radio consists of a plastic enclosure covered with antistatic plastic, a main PCB connection to LCD display, keyboards, side keys, accessories connector and a replaceable lithium battery package type KDC-810-Ex. One remote speaker microphone or one earpiece can be connected by the accessory connector with a screw.

The I.S. Digital Radio can support two frequency bands served: 350 to 400 MHz and 400 to 480MHz.

The following items are part of the product:

Power Supply: Lithium battery pack type KDC-810-Ex

Charger: Rapid charger type KBC-810Q, $U_m = 15VDC$

Accessories:

Remote Speaker Microphone type KKS-810Ex-A

Earpiece type KME-018-Ex

Technical Data:

Battery pack type KDC-810-Ex	DC 7.4 V, 2100 mAh or DC 7.4 V, 1960 mAh
Degree of Protection	IP68 (2m, 4h, According to IEC 60259) IP65 (According to EN IEC 60079-0)

Permitted range of the ambient temperature:

$T_{amb}: -20\text{ °C} \leq T_a \leq +50\text{ °C}$

Warning labels:

Warning: Do not charge in hazardous area

(16) Test documents are listed in the test report No. 23 0206798.

(17) Special conditions for safe use

1. I.S. Digital Radios Type DP810 & DP815 shall only be equipped with the Lithium battery pack type KDC-810-Ex.
2. The Lithium battery pack shall only be allowed to be charged via the rapid charger type KBC-810Q in a non hazardous area at ambient temperature range 0 °C to 45 °C.
3. Remote Speaker Microphone or Earpiece shall only be connected and disconnected in a non hazardous area, and the accessory connector must be fastened tightly by a screw.
4. The data transfer shall only be allowed via accessory connector in a non-hazardous.
5. Do not use the jack of remote speaker microphone.

(18) Essential Health and Safety Requirements

This certificate covers the Essential Health and Safety Requirements related to the Directive 2014/34/EU and assured by the conformity with harmonized standards listed under item 9.