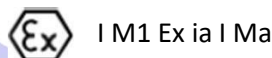


[1] **EU - TYPE EXAMINATION CERTIFICATE**  
[2] **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres**  
**Directive 2014/34/EU**

- [3] EU – Type Examination Certificate Number ACE24ATEX010X Rev00
- [4] Product Mining intrinsic safety remote control transmitter FYF100(A)
- [5] Manufacturer Sany Heavy Equipment Co., Ltd.
- [6] Address No.25, Kaifa Avenue,Economic & Technological Development Zone, Shenyang City, Liaoning Province, P.R.China
- [7] This equipment or protective system and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- [8] Advanced Consulting and Engineering Iberia SL (A.C.&E. Iberia S.L.), Notified body Accreditation nº: NB3024 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and 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
- [9] The examination and test results are recorded in the confidential Report nº. EX\_EXI002\_24\_24-1028
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
EN 60079-0 2018: Explosive atmospheres — Part 0: Equipment — General requirements  
EN 60079-11: 2013 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
- [10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Special Conditions for Use specified in the point 17 of 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 equipment or protective system shall include the following:



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Date: 08/10/2024



**Advanced Consulting and Engineering  
Iberia SL**  
Notified Body No NB3024

Matteo Marconi, CEO

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[13]

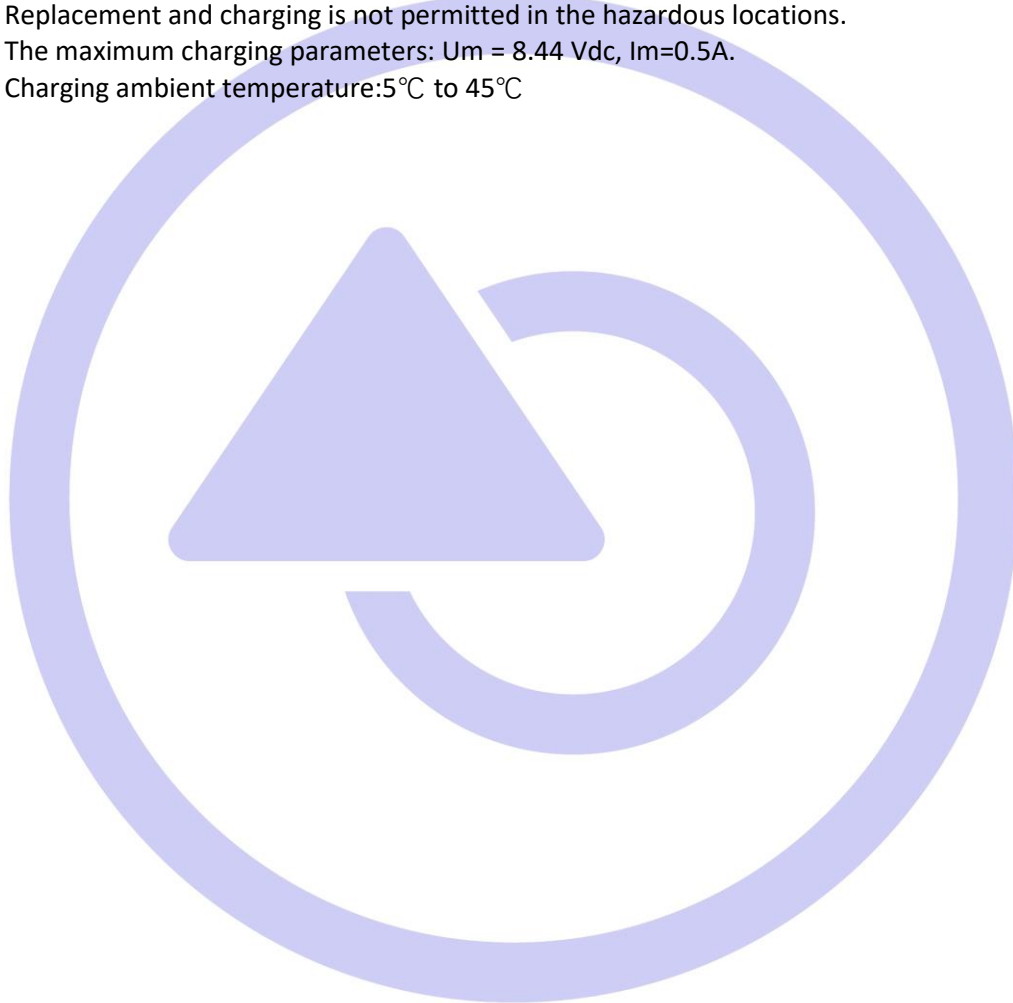
## SCHEDULE

[14]

EC-Type Examination Certificate No: ACE24ATEX010X Rev00

[15] Description of equipment

FYF100(A) Mining intrinsic safety remote control transmitter is designed to be intrinsically safe and intended to be used in mines. It has two chambers: main chamber and battery chamber. In the main chamber, there are three PCB boards and in the battery chamber, there are two battery protection boards. The battery chamber is totally encapsulated except for battery pack. The product uses two batteries in series and the battery is rechargeable. Nominal voltage of each battery is 3.7V. Replacement and charging is not permitted in the hazardous locations. The maximum charging parameters:  $U_m = 8.44 \text{ Vdc}$ ,  $I_m = 0.5\text{A}$ . Charging ambient temperature:  $5^\circ\text{C}$  to  $45^\circ\text{C}$



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[13] **SCHEDULE**

[14] EC-Type Examination Certificate No: ACE24ATEX010X Rev00

[16] Test documents are listed in the test report nº  
EX\_EXI002\_24\_24-1028

[17] Special conditions for safe use

1. The battery shall only be charged using a charger approved as SELV or Class 2 equipment against IEC 62368 or an equivalent IEC standard. The maximum voltage and current from the charger  $U_m$  and  $I_m$  shall not exceed 8.44Vdc and 0.5A respectively.
2. The ambient temperature during charging shall be in the range 5°C to 45°C.
3. The product shall only be fitted with DongGuan PingXin energy CO.,Ltd battery pack, Model:SY01.
4. "WARNING – DO NOT CHARGE OR REPLACE BATTERY PACK WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT"

[18] Essential Health and Safety Requirements  
Are fulfilled by the harmonized standard

[19] Documents and technical datasheets:

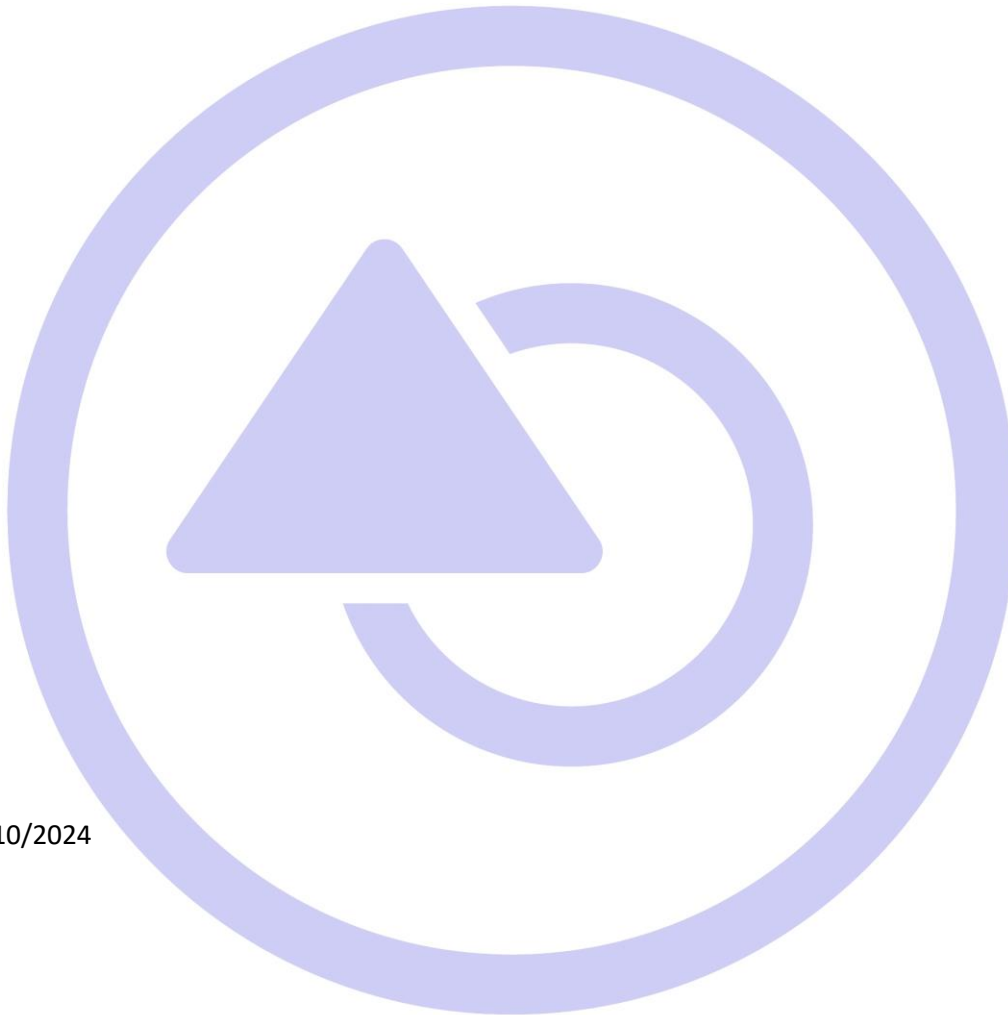
Title	Object	Revision	Date
Assembly	AIRC-1MAC48J-EN	V1.0	2024/05/20
Battery pack assembly	SY01	V1.0	2024/05/20
Main SCH	AIRC-Main-5th-A	V2.0	2024/05/13
Main PCB	AIRC-Main-5th	V2.0	2024/05/13
Main BOM	AIRC-Main-5th-B	V2.0	2024/05/20
BAT SCH	T1201-A	V1.0	2024/05/13
BAT PCB	T1201	V1.0	2024/05/13
BAT BOM	T1201-B	V1.0	2024/05/20
HD SCH	AIRC.HD.CG-A	V1.0	2024/05/20
HD PCB	AIRC.HD.CG	V1.0	2024/05/13
HD BOM	AIRC.HD.CG-B	V1.0	2024/05/20
RF SCH	AIRC-RF-A	V1.4	2024/05/13
RF PCB	AIRC-RF	V1.4	2024/05/13
AIRC-RF BOM	AIRC-RF-B	V1.4	2024/05/20
Product Nameplate	AIRC-1MAC48J-EN-05	V1.0	2024/05/20

The documents above-mentioned are strictly confidential and they are of only use of authorities.  
A copy of the documents are saved by A.C.&E. Iberia S.L.

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[20] Certificate History

Number of certificate	Rev.	Comments	Date
ACE24ATEX010X Rev00	00	First emission	08/10/2024



Date: 08/10/2024



**Advanced Consulting and Engineering  
Iberia SL**  
Notified Body No NB3024

Matteo Marconi, CEO

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