



1 **EU-TYPE EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **Sira 19ATEX2142X** Issue: **3**

4 Equipment: **CMDT 391-Ex Sensor with accessories: CMAC 8010-Ex IEPE Cable and CMAC 8007 IS charging cable.**

5 Applicant: **SKF France**

6 Address: **204 Boulevard Charles de Gaulle
37540 Saint Cyr sur Loire
France**

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

8 CSA Group Netherlands B.V., notified body number 2813 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

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 is subject to Specific Conditions of Use identified in the schedule to this certificate.

11 This EU-Type Examination Certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:



II 2G
Ex ib IIC T4 Gb
-20°C ≤ Ta ≤ +60°C

Project Number 80067514

Signed: J A May

Title: Director of Operations

CSA Group Netherlands B.V.
Utrechtseweg 310, Building B42,
6812AR Arnhem, The Netherlands



SCHEDULE

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13 DESCRIPTION OF EQUIPMENT

The CMDT 391-Ex Vibration with two accessories CMAC 8010-Ex IEPE Cable and CMAC 8007 Safe area IS charger is a portable device powers from a re-chargeable battery and it is used for collecting data inside hazardous area. Battery recharging is undertaken in the non-hazardous area, with the battery remaining in the equipment whilst charging take place.

The CMAC 8010-Ex, IEPE Cable has the following hazardous area entity parameters at the IEPE cable connector:

Uo = 23.1 V	Co = 0.14 uF	Io = 85.47 mA	Po = 12 mW
Lo = 1.48 mH	Lo/Ro = 72.03 uH/Ω	Ci = 0	Li = 0

Variation 1 - This variation introduced the following changes:

- i. Introduction of three new encapsulation materials for the CMAC 8010-Ex IEPE Cable.
- ii. Drawings CMAC 8010-Ex and Safety Critical Parts Declaration updated to reflect the change above.

Variation 2 - This variation introduced the following changes:

- i. A change of the Manufacturer's and Certificate Holder's name and address on the certificate:

From:	To:
SKF (U.K.) Limited	SKF France
Condition Monitoring Centre	204 Boulevard Charles de Gaulle
2 Michaelson Sq, Kirkton Campus	37540 Saint Cyr sur Loire
Livingston	France
EH54 7DP	
Lothian	
United Kingdom	

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Sira Reports and Certificate History

Issue	Date	Report number	Comment
0	15 November 2019	R80004725A	The release of the prime certificate.
1	15 May 2020	R80042021A	Transfer of certificate Sira 19ATEX2142X from Sira Certification Service to CSA Group Netherlands B.V.
2	11 May 2021	R80066735A	The introduction of Variation 1.
3	14 June 2021	R80067515A	The introduction of Variation 2.

15 SPECIFIC CONDITIONS OF USE (denoted by X after the certificate number)

15.1 Charging is only permitted in the non-hazardous location and at the ambient temperature of 0°C – 40°C.

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- 15.2 The socket can only be connected to the CMAC 8007, and CMDT 391-Ex EX Power Adapter for charging in the non-hazardous area.
- 16 **ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)**
The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.
- 17 **CONDITIONS OF MANUFACTURE**
- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of CSA Certificates.
- 17.2 Holders of EU-Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU.
- 17.3 Only the following battery pack is permitted. Battery pack assembly no. LP502243JU, manufactured by Jauch.

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Certificate Annexe



Certificate Number: Sira 19ATEX2142X

Equipment: CMDT 391-Ex Sensor with accessories:
CMAC 8010-Ex IEPE Cable and CMAC 8007
IS charging cable.

Applicant: SKF France

Issue 0

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
15V-030-01812-100	1 to 6	1	01 Nov. 19	CMDT 391-Ex CORE schematics
020-01812	1 to 18	1	01 Nov. 19	CMDT 391-Ex CORE PCB layout
15V-030-01613-100	1 to 1	3	01 Nov. 19	CMDT 391 UI Schematic
15V-020-01613-100	1 to 11	03	01 Nov. 19	Valyrian UI PCB layout
15V-030-01706-100	1 to 2	2	01 Nov. 19	CMDT 391 Accel IR Ex Schematic
020-01706	1 to 9	2	01 Nov. 19	020-01706 (CMDT 390 ACCEL PCB layout)
CMDT 391	1 to 1	1	01 Nov. 19	CMDT 391-Ex Mechanical Assembly
15V-030-01810-100	1 to 1	1	01 Nov. 19	CMAC 8010-Ex IEPE Schematic
15V-020-01810-100	1 to 5	3	01 Nov. 19	SKF CMDT 391 PCB layout
CMAC 8010-Ex	1 to 1	1	01 Nov. 19	Cable Assembly Ex mechanical drawing
-	1 to 6	3	01 Nov. 19	Safety Critical Part Declaration
15V-100-00202-102	1 to 1	1	01 Nov. 19	CMDT 391 Ex Connectors assembly
15V-030-01702-100	1 to 1	4	01 Nov. 19	CMDT 391 Battery Ex
15V-020-01702-100	1 to 10	1	01 Nov. 19	Battery Protection board
-	1 to 1	2	01 Nov. 19	CMDT 391 Ex System Block diagram
-	1 to 2	2	01 Nov. 19	CMDT 391-Ex ATEX/IECEx Label Specification

Issue 1 – No new drawings were introduced.

Issue 2

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
CMAC 8010-Ex	1 to 1	2	27 Apr 21	Cable Assembly Ex mechanical drawing
Safety Critical Part Declaration	1 to 6	5	27 Apr 21	Safety Critical Part Declaration

Issue 3

Drawing	Sheets	Rev.	Date (Stamp)	Title
CMDT 391	1 to 2	3	07 Jun 21	Label Specification

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