



EU-TYPE EXAMINATION CERTIFICATE

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

Certificate Number: **Sira 19ATEX2142X** Issue: **1**

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

Applicant: **SKF (U.K.) Limited**

Address: Condition Monitoring Centre
2 Michaelson Sq, Kirkton Campus
Livingston
EH54 7DP
Lothian
United Kingdom

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

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.

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

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.

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.

The marking of the equipment shall include the following:



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

Project Number 80042021

Signed: J A May

Title: Director of Operations

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



SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE

Sira 19ATEX2142X
Issue 1

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:

$U_o = 23.1 \text{ V}$	$C_o = 0.14 \text{ uF}$	$I_o = 85.47 \text{ mA}$	$P_o = 12 \text{ mW}$
$L_o = 1.48 \text{ mH}$	$L_o/R_o = 72.03 \text{ uH}/\Omega$	$C_i = 0$	$L_i = 0$

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.

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.

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.

CSA Group Netherlands B.V.
Utrechtseweg 310, Building B42,
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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 (U.K.) Limited

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.

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