



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx SIR 19.0045X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2019-11-15

Applicant: **SKF (U.K.) Limited**
Condition Monitoring Centre (Livingston)
2 Michaelson Square
Kirkton Campus
Livingston
Scotland EH54 7DP
United Kingdom

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

Optional accessory:

Type of Protection: **Intrinsically Safe**

Marking: **Ex ib IIC T4 Gb**
-20°C ≤ Ta ≤ +60°C

Approved for issue on behalf of the IECEx
Certification Body:

Neil Jones

Position:

Certification Manager

Signature:
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

SIRA Certification Service
CSA Group
Unit 6, Hawarden Industrial Park
Hawarden, Deeside, CH5 3US
United Kingdom





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Manufacturer: **SKF (U.K.) Limited**
Condition Monitoring Centre (Livingston)
2 Michaelson Square
Kirkton Campus
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Additional
manufacturing
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[GB/SIR/ExTR19.0286/00](#)

Quality Assessment Report:

[GB/SIR/QAR06.0039/07](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

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.

Refer to the Annexe for the Entity Parameters

SPECIFIC CONDITIONS OF USE: YES as shown below:

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

Annex:

[IECEx SIR 19.0045X Issue 0 Annexe.pdf](#)

Annexe to: I ECEX SI R 19.0045X Issue 0

Applicant: SKF (U.K.) Limited

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



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

Conditions of Manufacture

1. Only the following battery pack is permitted. Battery pack assembly no. LP502243JU, manufactured by Jauch.