



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 ULD 10.0018** Page 1 of 4 Certificate history:
Status: **Current** Issue No: 4 Issue 3 (2020-07-21)
Date of Issue: 2021-04-29 Issue 2 (2015-03-31)
Issue 1 (2011-10-07)
Issue 0 (2011-05-04)
Applicant: **Crowcon Detection Instruments Ltd**
172 Brook Drive, Milton Park
Abingdon, Oxfordshire
OX14 4SD
United Kingdom
Equipment: **Battery Charging and Communication Cable Assemblies**
Optional accessory:
Type of Protection: **Intrinsic safety "ia"**
Marking: [Ex ia Ga]
 $0^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$

Approved for issue on behalf of the IECEx
Certification Body:

Katy A. Holdredge

Position:

Senior Staff Engineer

Signature:
(for printed version)

Date:

2021-04-29

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:

UL International DEMKO A/S
Borupvang 5A
DK-2750 Ballerup
Denmark





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Date of issue: 2021-04-29

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Manufacturer: **Crowcon Detection Instruments Ltd**
172 Brook Drive
Milton Park, Abingdon, Oxfordshire, OX14 4SD
United Kingdom

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 Reports:

[DK/ULD/ExTR10.0019/00](#)
[DK/ULD/ExTR10.0019/03](#)

[DK/ULD/ExTR10.0019/01](#)
[DK/ULD/ExTR10.0019/04](#)

[DK/ULD/ExTR10.0019/02](#)

Quality Assessment Report:

[GB/BAS/QAR06.0070/09](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The associated apparatus consists of 7 different model variants, intended for use as charging and/or communication devices when connected to I.S. equipment. The connection of I.S. equipment to the associated apparatus must only be performed in a non-hazardous location.

Please see Annex for additional information.

SPECIFIC CONDITIONS OF USE: NO



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1: No technical change, update of ExTR to IEC 60079-0, Ed. 5.

Issue 2: Addition of 2 new model variants, change of applicant and manufacturing location, update to Ed. 6 of IEC 60079-0 and IEC 60079-11.

Issue 3: Addition of model BLUETOOTH ENABLED POWER CABLE. Markings revised.

Issue 4: No changes to the equipment. Evaluation to standard IEC 60079-0 latest edition.

Annex:

[Annex to IECEx ULD 10.0018 Issue 4.pdf](#)



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PARAMETERS RELATING TO THE SAFETY

Um: 250V

Uo: 9.1V

Normal Operating Parameters:

POWER CABLE:

In: 6.5 Vdc +/-5 %; Out: 6.5 Vdc +/-5 %

COMMUNICATION CABLE:

In: 5 Vdc +/-10 % (USB); Out: 3V TTL

VEHICLE POWER CABLE:

In: 12 Vdc/24 Vdc; Out: 6.5 Vdc +/-5 %

POWER AND COMMUNICATION CABLE:

In: 5 Vdc +/-10 % (USB); Out: 3V TTL (Communication), 6.5 Vdc +/-5 % (Power)

In: 12 Vdc/24 Vdc; Out: 6.5 Vdc +/-5 %

CRADLE CHARGER

In: 6.5 Vdc +/-5 %; Out: 6.5 Vdc +/-5 %

CRADLE POWER AND COMMUNICATIONS

In: 6.5 Vdc +/-10 %; Out: 3V TTL (Communication), 6.5 Vdc +/-5 % (Power)

BLUETOOTH ENABLED POWER CABLE

In: 6.5 Vdc +/-5 %; Out: 3V TTL (Communication), 6.5 Vdc +/-5 %

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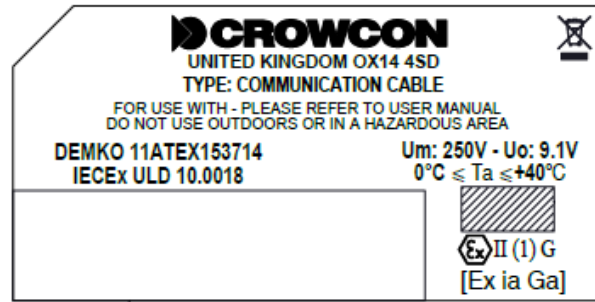
MARKING

Marking has to be readable and indelible; it has to include the following indications:

1004-1098



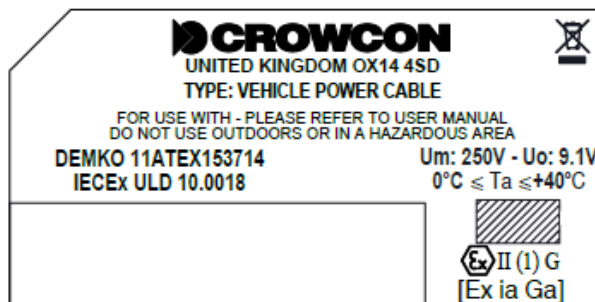
1004-2501



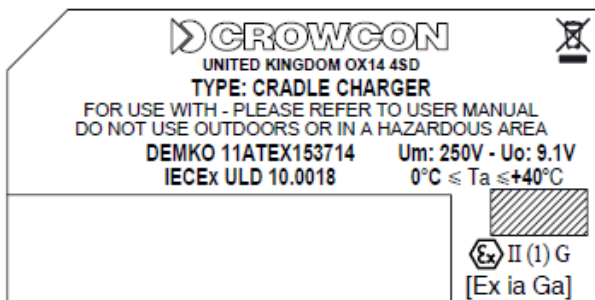
1004-2502



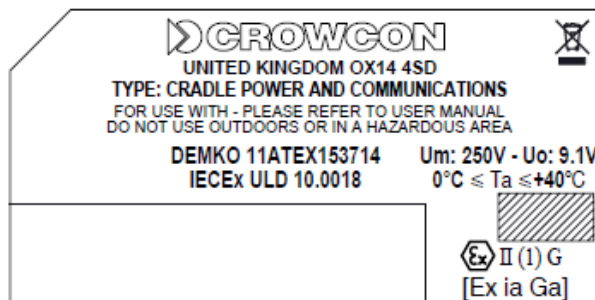
1004-2503



MCAD-002997



MCAD-002999





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MCAD-003852



Note: Hatched areas contain CE mark and ATEX Notified Body number.