



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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

Certificate No.:	IECEx EXV 15.0009X	Issue No: 0	Certificate history: Issue No. 0 (2016-01-20)
Status:	Current	Page 1 of 4	
Date of Issue:	2016-01-20		
Applicant:	CorDEX Instruments Ltd Unit 1 Owens Road, Skippers Lane Industrial Estate, Middlesbrough, Cleveland TS6 6HE United Kingdom		
Electrical Apparatus:	LED hand-held lantern and transportable floodlight		
Optional accessory:			
Type of Protection:	Intrinsic Safety "I" Optical Radiation "op is"		
Marking:	Ex ib op is IIC T4 Gb (Ta = -10°C to +40°C)		
Approved for issue on behalf of the IECEx Certification Body:	S. D'Henin		
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 the [Official IECEx Website](#).

Certificate issued by:

ExVeritas Limited
Units 16-18 Abenbury Way
Wrexham Ind. Est.
Wrexham LL 139UZ
United Kingdom





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Manufacturer: **CorDEX Instruments Ltd**
Unit 1 Owens Road,
Skippers Lane Industrial Estate,
Middlesbrough, Cleveland
TS6 6HE
United Kingdom

Additional Manufacturing
location(s):

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 electrical apparatus 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 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-28 : 2006-08 Edition:1	Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation

*This Certificate **does not** indicate compliance with electrical 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/EXV/ExTR15.0010/00](#)

Quality Assessment Report:

[GB/SIR/QAR10.0010/06](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The CorDEX FL47xx LED can be provided in two different variations as follow:

1. Hand-held lantern
2. Transportable floodlight

All version are based in the same core LED floodlight, which is comprise of an aluminium enclosure with a lighting window made in glass, inside of this enclosure is situated the PCB where the safety critical components and the LED's are soldered. This LED Light includes also a push-button that is directly actioned in the transportable version or is actioned through a mechanical assembly in the hand-held version.

This product is powered through the rechargeable battery pack model EXIS approved as an intrinsically safe Ex Component (IECEx EXV 15.0008U).

CONDITIONS OF CERTIFICATION: YES as shown below:

- Only the EXIS battery pack can be used (IECEx EXV 15.0008U).
- It is not allowed to charge the battery pack in hazardous area.



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Additional information:

See Annex for the approval drawings.

Annex:

[IECEx 15.0009 X - Annex_Issued.pdf](#)

Description Continued:

N/A

Routine Tests:

N/A

Special Conditions for manufacture:

N/A

Manufacturer's documents:

Title:	Drawing No.:	Rev	Date:
CorDEX EXIS Host Connector Board	CDX1000-250	1.3	2015/05/20
CorDEX EXIS Host connector PCB	CDX-1000-253	1.3	2015/03/31
CorDEX EXIS Host connector PCB Assembly	CDX-1000-254	1.3	2015/03/31
CorDEX EXIS Host FFC Board	CDX1000-260	1.0	2015/03/25
CorDEX EXIS Host FFC Flexi PCB	CDX-1000-263	1.0	2015/03/25
CorDEX EXIS Host FFC Flexi PCB Assembly	CDX-1000-264	1.0	2015/03/25
CorDEX IS LEDLamp System - IS LED Lamp	CDX4700-200	2.1d	2015/03/19
CorDEX IS LED Lamp System Schematic BOM	CDX-4700-201	2.1d	2015/05/20
Instructions for Safe Use Intrinsically Safe LED hand-held lantern and transportable floodlight	FL4700_4725SOM	A	-
IS Light General Assembly	CDX4700-019	A	2015/01/05
Lantern General Assembly	CDX4700-020	A	2015/01/05
Floodlight General Assembly	CDX4700-021	C	2015/07/18
Button Assembly	CDX4700-406	A	2015/01/15
Rating plate	CDX-4700-441	E	2015/11/30
Internal Connections	CDX4700-471	A	2015/01/15
CorDEX IS LED Lamp – Top, LED Array, LED Driver	CDX4700-200	2.1d	2015/03/19
CorDEX IS LED Lamp Board BOM	CDX4700-207	2.1	2015/05/20
CorDEX HIR IS LED Lamp PCB	CDX-4700-208	2.1	2015/03/23
CorDEX HIR IS LED Lamp Assembly	CDX-4700-209	2.1	2015/03/23
Front Glass	CDX4700-410	A	2015/11/20