



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 BAS 11.0094 issue No.:1

Status: **Current**

Certificate history:
Issue No. 1 (2012-2-28)
Issue No. 0 (2011-9-21)

Date of Issue: **2012-02-28** Page 1 of 4

Applicant: **CorDEX Instruments Limited**
1 Owens Road
Skippers Lane Industrial Estate
Middlesbrough
TS6 6HE
United Kingdom

Electrical Apparatus: **UT-5000 Ultrasonic Thickness Gauge**
Optional accessory:

Type of Protection: **Intrinsic Safety**

Marking: **Ex ib IIC T4 Gb (Tamb -10°C to +50°C)**
Ex ibD T200°C Db (Tamb -10°C to +50°C)

Approved for issue on behalf of the IECEx
Certification Body:

R S Sinclair

Position:

General Manager

Signature:
(for printed version)



28/2/12

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:

Baseefa
Rockhead Business Park
Staden Lane
Buxton
Derbyshire
SK17 9RZ
United Kingdom





IECEX Certificate of Conformity

Certificate No.: IECEX BAS 11.0094

Date of Issue: 2012-02-28

Issue No.: 1

Page 2 of 4

Manufacturer: **CorDEX Instruments Limited**
1 Owens Road
Skippers Lane Industrial Estate
Middlesbrough
TS6 6HE
United Kingdom

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 : 2004 Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-0 : 2007-10 Edition: 5	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-11 : 2006 Edition: 5	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 61241-11 : 2005 Edition: 1	Electrical apparatus for use in the presence of combustible dusts - Part 11: Protection by intrinsic safety 'iD'

*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/BAS/ExTR11.0093/00](#)

[GB/BAS/ExTR11.0094/00](#)

[GB/BAS/ExTR12.0004/00](#)

Quality Assessment Report:

[GB/SIR/QAR10.0010/02](#)



IECEx Certificate of Conformity

Certificate No.: IECEx BAS 11.0094

Date of Issue: 2012-02-28

Issue No.: 1

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The UT-5000 is battery powered hand held equipment designed to measure the thickness of materials in hazardous areas using non-destructive techniques. It comprises three printed circuit boards inside a main instrument case housed in a protective rubber over boot, a custom cable, and a dual element ultrasonic transducer.

The equipment is battery powered by a single primary cell. Only Tadiran SL-2780 Lithium Thionyl Chloride cells may be used. The battery is to be replaced only when in a safe area.

The USB connector is for use only in safe areas and has the terminal parameter $U_m = 253V$

CONDITIONS OF CERTIFICATION: NO



IECEx Certificate of Conformity

Certificate No.: IECEx BAS 11.0094

Date of Issue: 2012-02-28

Issue No.: 1

Page 4 of 4

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Variation 1.1

To permit the addition of the dust protection concept Ex ibD.

ExTR: GB/BAS/ExTR12.0004/00

File Reference: 11/0942