



1 **EC - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 94/9/EC**

3 EC - Type Examination Certificate Number: **Baseefa11ATEX0114**

4 Equipment or Protective System: **Ultrasonic Thickness Gauge**

5 Manufacturer: **CorDEX Instruments Limited**

6 Address: **Middlesbrough, TS6 6HE**

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

8 Baseefa, Notified Body number 1180, in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report No.

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2009 EN 60079-11:2007

except in respect of those requirements listed at item 18 of the Schedule.

10 If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

11 This EC - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protective system. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12 The marking of the equipment or protective system shall include the following :

⊕ II 2G Ex ib IIC T4 Gb (T_{amb} -10°C to +50°C)

This certificate may only be reproduced in its entirety, without any change, schedule included.

Baseefa Customer Reference No. **6684**

Project File No. **10/0917**

This certificate is granted subject to the general terms and conditions of Baseefa. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

A handwritten signature in blue ink, appearing to read "R S Sinclair".

R S SINCLAIR

**DIRECTOR
On behalf of
Baseefa**

Baseefa

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Baseefa is a trading name of Baseefa Ltd

Registered in England No. 4305578. Registered address as above.



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Schedule

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Certificate Number Baseefa11ATEX0114

15 Description of Equipment or Protective System

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 safe areas.

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

16 Report Number

GB/BAS/ExTR11.0093/00 & GB/BAS/ExTR11.0094/00

17 Special Conditions for Safe Use

None

18 Essential Health and Safety Requirements

All relevant Essential Health and Safety Requirements are covered by the standards listed at item 9.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
CDX-5000-200	1 & 2	1.2	19/08/11	Display Board sch
CDX-5000-201	1	1.2	19/08/11	Keypad Schematic
CDX-5000-202	1 to 7	1.2	19/08/11	Processor Sch
CDX-5000-203	1 to 5	1.2	19/08/11	Ultrasound Sch
CDX-5000-204	1	1.2	19/08/2011	Cordex Display Board
CDX-5000-205	1	1.2	19/08/2011	CorDEX Keypad Board (certification)
CDX-5000-206	1	1.2	19/08/2011	CorDEX Processor Board
CDX-5000-207	1	1.2	19/08/2011	CorDEX Ultrasound Board
CDX-5000-208	1 & 2	1.2a	15/07/2011	Display Board Fab
CDX-5000-209	1 & 2	1.2	02/08/2011	Keypad Board Fab
CDX-5000-210	1 & 2	1.2	08/07/2011	Processor Fab
CDX-5000-211	1 & 2	1.2a	15/07/2011	Ultrasound Fab
CDX-5000-216	1 & 2	2.0b	07/07/2011	Probe Assembly
CDX-5000-217	1	2.0b	07/07/2011	Probe Fab
CDX-5000-218	1	2.0B	22/08/2011	CorDEX Probe Board
CDX-5000-219	1	2.0b	19/08/11	Probe Schematic
CDX-5000-220	1	2.0b	15/07/11	Probe ExTC4/10 Assembly
CDX-5000-221	1	A	15/03/11	Probe Cable Assembly
CDX-5000-230	1	A	15/03/11	RFID Wire Assembly

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Number	Sheet	Issue	Date	Description
CDX-5000-231	1	A	15/03/11	Ultrasound Lead Assembly
CDX-5000-232	1	A	15/03/11	Battery Holder Assembly
CDX-5000-234	1	A	15/03/11	Display Assembly
CDX-5000-300	1	A	02/03/11	Cordex Enclosure Assembly
CDX-5000-333	1	A	09/03/11	Rating Plate