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Congratulations – You are the owner of the next generation **ultrasonic thickness gauge** designed and certified specifically for use in **hazardous** (explosive) atmospheres.



UT5000 is certified ATEX/IECEx as follows:

Tested for Zone 1 IIC T4 hazardous areas



Please ensure that the certification matches or exceeds the hazardous area characteristics that will be clearly displayed on site.

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Whilst in a hazardous area, do not attempt to change batteries or download images, these tasks should only be undertaken after returning to a safe area.

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GETTING TO KNOW YOUR UT5000







1	4
Desk stand	Probe
2	
Probe connectors	
3	
RFID Reader	

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OVERVIEW

The UT5000 measures material thickness for Non-Invasive Testing (NIT) and Predictive Maintenance (Pdm) on pipelines and fixed equipment within hazardous locations. UT5000 is a next-generation tester packed with proven technologies:

- CorDEX CONNECT uses RFID + Software to tag measurements with their location then organizes the data, giving the engineer a view of the pipeline at any specific location.
- The unique corrosion mode option helps identify spots of thinning.

- MultiECHO[™] technology improves accuracy on uneven surfaces; onboard memory stores up to 1000 readings.
- Designed for rugged environments, the shock-resistant skin protects the 3.1 inch colour screen and has easy-to-feel, raised buttons. The dual-element, 4MHz transducer is adjustable up to 8Hz with accuracy of +/-0.05mm.

PACKAGE CONTENTS

Carefully unpack your UT5000 Intrinsically Safe Thickness Gauge and ensure that you have the following items:

- UT5000 Intrinsically Safe Thickness Gauge
- Hard Carry Case
- 1 x Probe

- USB Communication Cable
- Couplant Gel
- Battery
- Wrist Strap
- RFID tags

RFID detect/ID 2 Measurement **Battery level meter Key function** UT5000 5 Key 6 Power button Alarm min/max values 8 Settings: Pulse rate Material Velocity

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GETTING STARTED

Inserting The Battery

The battery compartment is in the rear of the instrument under the orange shockresistant overboot.

WARNING! Use only a Tadiran 3.6V Lithium Thionyl Chloride Cell (19.0Ah, SL-2780/S, CorDEX Part No: CDX5000-327). The use of any other type of battery is strictly forbidden!

To change the battery:

1

Remove the orange shock-resistant overboot by stretching it over the lower corners of the unit at the front. It may help to remove the stand from the back and to open the USB and probe connector covers.

2

Half turn the two screws on the compartment cover and then carefully lift off the cover.

3

Make sure that the rubber sealing of the cover is not damaged or removed from the guiding notch.

4

Insert the battery.

WARNING! - Ensure correct orientation according to the sketch on the battery cover to avoid internal damage. When exchanging the battery, the memorized parameter and calibration values are deleted. Therefore, you need to execute a new calibration and enter the relevant parameters again after exchange of the batteries.

After battery replacement, switch the instrument on/off twice to reset it to a predefined operating status. All previous settings will be restored to the tester after connecting to the CorDEX CONNECT™ software, or the UT5000 Mini app.



Always use with outer orange overboot fitted and never open the battery or USB compartments in a hazardous environment.

Connecting the Probe

WARNING! Only approved transducer/cable (Probe CorDEX part no: ExTC4/10) with approved (Cable CorDEX part no: CDX5000-221) – complete probe/cable CorDEX part no:XP-570 can be used.

Press the probe plugs (it does not matter which way round the connectors are fitted) into the connector sockets on the rear of the UT5000.

Turning the Power On/Off

To switch the UT5000 on or off, press the Power button and hold it down for about 5 seconds. The UT5000 has an AUTO SLEEP feature: it turns off automatically when the device has not been operated for a fixed period of time (see page 18). To resume the operation condition, press any button.

Calibration/ Zeroing

2-Point calibration after attaching the probe

- Calibration must be performed every time the probe is detached/attached.
- 2. Ensure your probe lead is connected to your UT5000.
- 3. Power on your UT5000.
- 4. Press the setup key [SETUP]
- Highlight 'transducer setup' from the list using arrow keys, then press select key [SEL]
- Highlight 'probe zero/cal double' from the list using arrow keys, then press select key [SEL]
- Apply couplant gel to calibration step wedge on lowest and highest steps.
- 8. Measure first step and then enter known step thickness.
- Repeat the measurement process for the opposite end of the calibration step wedge.

Once this process is complete, your device has been two point calibrated.

To simply check that your probe is measuring, apply gel to the stainless steel disc mounted on the front of the device and press the probe firmly against the disc and press [MEAS] – a reading should be seen.

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REGISTERING YOUR UT5000

Connecting The UT5000

Using the supplied USB cable, connect the UT5000 to a PC with a working internet connection. Windows will detect the connection and display the Found New Hardware prompt. Allow Windows to search for the appropriate device driver.

Installing the UT5000 Mini-App

You can install the UT5000 Mini App from the supplied CD or by downloading it from the CorDEX Instruments website.

Load the CD into your PC and follow the on-screen instructions.

The Mini App requires Windows Installer 3.1 and .NET Framework 3.5 SP1. These may already be present on your PC but, if not, the installer will download and install the necessary files automatically. This is, however, a 197MB download so it may take some time, depending on your connection speed. Alternatively, you can install the files from the supplied CD.

Registration

The UT5000 Mini App starts automatically and prompts you to enter your registration details. You will need to enter the serial number for your unit. This is shown on the rating plate on the back of the unit. You can also display the serial number on screen:

- 1. Press the VIEW button on your UT5000.
- 2. Press the down arrow to highlight the **ABOUT** option.
- 3. Press the **SEL** button.

Complete the registration form and then click on the Activate button. Registration may take a few seconds to complete. Following registration, you will have full access to the application to download data, upload material and gauge settings and RFID information.

Following installation, you will be able to start the application in future from the Start menu: select All Programs > CorDEX Instruments > UT5000.

Materiale Aluminium 2024T4 Aluminium 5051T6 Bross Bross Bross	Velocity.	-0	Со	rD	EX
Copper Gold Hastelloy C Hastelloy X	Delete	Please repuide your r	gistration ane enal address and enal number for your UT with CorDEX Instrument	TER	ENTS
RFID Set Up FFID Alas	RFID Code Change RFID Al Alam Settings Mirr	Nome: Email Address:		Activate	
Material	Vel	Add/Edt			
Gauge Settings Date Format © DD/MM/2000Y © M Storp Timer 60 💟		TTTT MINLOD	Connected to Coll No S/N stored 1F	EX UT Gauge leadings stored:	a fa

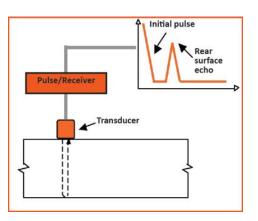
TAKING MEASUREMENTS

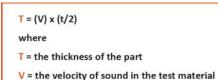
Using the Probe

The probe face is split into two halves: one half transmits ultrasonic sound waves and the other half, separated across the centre by a barrier, receives any reflected signals.

The probe measures the thickness of the material directly beneath the probe face. The accuracy of the measurements depend on good contact with the target material. In particular, you must ensure that there are no air gaps or pockets between the material and the probe face. To achieve a good contact, apply a droplet of the couplant gel to the target area and press the probe firmly onto it. Continue to apply gentle downward pressure to the probe during the measurements.

Sometimes it can be difficult to obtain good contact with the target material. Be aware that layers of paint or rust can interfere with the transmission of the ultrasound.





t = the measured round-trip transit time

Measurement Modes

The UT5000 supports two types of measurement:

Single Measurement Mode

The gauge stores a single spot thickness. This is important when inspecting pipeline thickness in a specific location. You can configure single mode measurements to include up to four consecutive Txpulse measurements using the Multi-Echo setting (see page 13). The default is one Txpulse measurement.

Continuous Measurement (Corrosion) Mode

In this mode, the gauge continues to take measurements at the specified pulse Frequency until the STOP key is pressed. The UT5000 averages all valid measurements while in this mode storing maximum, minimum and average values.

Use this mode for basic corrosion inspection: move the probe slowly over a 100mm square area and monitor the maximum and minimum thickness in the inspected area, along with the average thickness measured.

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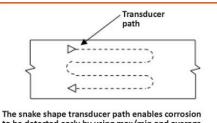
Setting the Mode

The pulse frequency determines the rate of repeated measurements. To change the pulse frequency:

Press the FREQ key, or Press the SETUP key. Use the arrow keys to highlight Pulse Frequency, then press the SEL key.

For single measurements, choose Single shot.

For continuous measurements, choose from the following options: 1, 2, 3, 4, 5, 6, 7 or 8 Hz. Measurements will be taken continuously at the selected rate and continue until the STOP key is pressed.



to be detected early by using max/min and average readings taken across the path, a must for any NDT professional.

Selecting Material Velocity

To carry out an accurate measurement, it is important that you provide the UT5000 with the correct velocity of sound in the medium to be measured. The UT5000 contains a table of values for the most common materials. For more unusual materials, you may need to enter the velocity manually.

To change the current material velocity, press the VEL key on the main display. Use the UP or DOWN keys to choose from the following options:

- Material User Defined
- Material From List

Having made your choice, press the **SEL** button to continue.

Material From List

This option allows you to select a velocity from the UT5000's internal table of predefined materials (see page 10). You can add materials to the velocity data table using the host system (UT5000 Mini-App).

To select a new material, use the arrow keys to highlight the required material, then press the SEL key. The new material and velocity replaces the current selection and, until the material is changed, all measurements are calculated using the user-defined velocity value.

Material User Defined

Use this option to enter material velocity data. CAUTION! For user defined data, you are overriding any safety checks within the gauge. If you attempt to override a preloaded material velocity value, the UT5000 prompts you to confirm any changes: "Material velocity data mismatch, continue YES/NO".

To define a new material:

- 1. Select UD Material Text.
- 2. Enter the name of the material you want to define:
- Use the arrow keys to highlight the required character, then press the SEL key.
- Repeat this procedure until you have entered the full text.
- 3. Use the arrow keys to highlight ACCEPT, then press the SEL key.
- 4. Select UD Material Velocity.
- 5. Enter the velocity for the material:
- Use the arrow keys to highlight the required digit, then press the SEL key.
- Repeat this procedure until you have entered the full value.
- 6. Use the arrow keys to highlight ACCEPT, then press the SEL key.

The new material and velocity replaces the current selection and, until the material is changed, all measurements are calculated using the user-defined velocity value.

Taking a Measurement

Before you take a measurement check that you have:

- Fitted the probe (see page 9)
- Applied couplant to the target area (see page 12).
- Selected the required measurement mode (see page 13).
- Chosen the correct material velocity (see page 14).
- · Zeroed/calibrated the gauge (see page 9).

To take the measurement:

If an RFID tag applies to the target area, press the **SCAN** button. The unit must be within 5cm of the tag for reliable detection. If a tag is detected, all subsequent measurements will be associated with the tag. If you have set up the tag with material and alarm settings, these are displayed by the UT5000.

- Press the probe onto the target area, attempting to exclude all air at the contact point.
- 2. Holding the probe firmly, press the UT5000's **MEAS** key. If you have selected a pulse frequency, the UT5000 displays the maximum and minimum values obtained so far, and the average measurement.

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3. Press the **STOP** key to stop measuring. If any of the measurements exceed the defined alarm settings for the RFID tag location, the corresponding alarm setting is displayed with red text.

If you want to store the measured values, press the **SAVE** key. To download all saved measurements to a PC, see page 19.

RIFD TAG SETUP

Detecting a Tag

To carry out an accurate measurement, it is important that you provide the UT5000 with the correct velocity of sound in the medium to be measured. The UT5000 contains a table of values for the most common materials. For more unusual materials, you may need to enter the velocity manually.

Tag Alias

Use the on-screen keyboard to define the name of the RFID Tag. Use the arrow keys to highlight the required character, then press the **SEL** key. Repeat this procedure until you have entered the full name. Use the arrow keys to highlight **ACCEPT**, then press the **SEL** key.

Material Velocity

Select a predefined material and velocity from the UT5000's internal table or define your own. The value will be assigned to the RFID Tag. This procedure has been described on page 14.

Setup Alarms

Set the low and high alarms for thickness measurements within the vicinity of this RFID Tag.

To set an alarm, highlight the Low or High alarm option, then press the **SEL** key. Use the arrow keys to highlight the required digit, then press the **SEL** key. Repeat this procedure until you have entered the full value. Use the arrow keys to highlight **ACCEPT**, then press the **SEL** key.

The **ALARM** key on the main display provides a shortcut to this menu option.

You can also set up RFID tag information through the UT5000 mini app (see page 11).

TRANSDUCER SETUP

Pulse Frequency

The pulse frequency determines the rate of repeated measurements. To change the pulse frequency:

- Press the FREQ key, or
- Press the SETUP key. Use the arrow keys to highlight Pulse Frequency, then press the SEL key

Choose from the following options:

- Single shot
- The UT5000 takes one measurement
- 1, 2, 3, 4, 5, 6, 7 or 8 Hz
- Measurements are taken continuously at the selected rate and continue until the STOP key is pressed

Transducer Select

Identify the type of transducer probe, e.g. 4MHz transducer.

Multi Echo

The Multi Echo option allows averaging of individual measurements for greater accuracy on uneven surfaces.

Choose from the following options:

- Off
- 2,3 or 4

Use the arrow keys to highlight the required option then press the SEL key.

Probe Zero Built In

Select this option to zero the probe using the UT5000's built-in probe check point (see page 9).

Probe Zero/Cal Double

Select this option to calibrate/zero the probe using the UT5000's built-in calibration disc (see page 9).

Measure Material Velocity

Select this option to estimate the material velocity for a sample of known thickness.

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GAUGE SETUP

VIEWING DATA

To display the Gauge Setup menu, press SETUP. Then, use the arrow keys to highlight Gauge Setup and press the SEL key.

Choose from the following options:

- Date Format
- Sleep Timer
- Units
- Handedness

Use the arrow keys to highlight the required option, then press the **SEL** key.

Date Format

Choose from the following formats:

- YYYY/MM/DD
- MM/DD/YYYY
- MM/DD/YYYY

The time and date are updated automatically whenever you connect to the UT5000 mini app, CorDEX CONNECT or to CorDEX CAMS. Time and Date cannot be set manually.

Sleep Timer

To save power, the UT5000 will switch off after the specified period of inactivity. Choose the time period: 1min, 2min, 3min, 4min or 5min.

Units

Choose whether the UT5000 uses and displays metric or imperial units.

Handedness

Choose whether the main functions of the UT5000 use the buttons on the left or right side. The "handedness" setting refers to the hand used by the operator to hold the device. For example, if the operator holds the device in their right hand, a 'right' handedness setting ensures that the main functions of the UT5000 are operated by buttons on the left side of the unit.

You can also set the Date Format and Sleep Timer using the UT5000 mini app.

To view stored data, press the **VIEW** key on the main display. Select **STORED DATA**, then press the **SEL** key.

Choose from the following options:

- Stored Measurements
- Reset Basic Gauge Setup

Stored Measurements

Data is listed for each registered RFID Tag in the following format:

- RFID Tag
- Tag Alias
- Material, source and name, e.g. From List: Alumin
- Vel: Material velocity
- Min: Minimum measurement
- Max: Maximum measurement
- Mea: Average measured value
- Date: date of last measurement
- Time: time of last measurement

Use the up and down arrow keys to scroll through saved measurements.

Reset Basic Gauge Setup

Select this option to restore the factory default gauge settings, for example, Pulse Frequency. Tag and material information is not affected.



Never open the battery or USB compartments in a hazardous environment.

USING THE MINI-APP

Starting the Mini-app

Connect your PC to the gauge using the supplied cable. Run the UT5000 miniapp by choosing:

Start > All Programs > CorDEX Instruments > UT5000

The following functions are accessed in the USB mode:

- Adding/editing material velocity information
- Adding/editing RFID tag information
- Editing gauge settings (date format and sleep timer period)
- · Download saved measurements

Adding/Editing/Deleting Materials

- To add a new material, type its Name, enter a Velocity (m/s) and then click on the Add/ Edit button.
- To edit the information for an existing material, select it in the list and then change the name and velocity as required. Click on the Add/Edit button.
- To delete an existing material, select it in the list and click on the Delete button.

Adding/Editing/Deleting Tags

- To add a new material, type its Name, enter a Velocity (m/s) and then click on the Add/ Edit button.
- To edit an existing material, select it in the list and click on the Edit button. Change the RFID Alias and Alarm Settings as required.
 To apply a material to the tag, select it in the Materials list and then click on the Grab button.
- To delete an existing material, select it in the list and click on the Delete button.

Gauge Setup

You can use the Mini App to change the Date Format and to set the Sleep Time. You can also edit these parameters through the Setup menu (see page 14).

Date Format

Choose from the following Date Formats: DD/MM/YYYY MM/DD/YYYY YYYY/MM/DD

Sleep Timer

To save power, the UT5000 will switch off after the specified period of inactivity. Choose the time period: 1, 2, 3, 4 or 5 minutes.

Get/Clear Readings

To download all saved readings in CSV file format:

1. Click on the Get Readings button. Readings are stored in the

My Documents > CorDEX Instruments > UT Gauge data files folder.

2. Choose whether you want to clear the entries from the gauge.

If you have enabled the appropriate options in Windows, the data file is automatically opened in the PC's default application for viewing csv files. To view the settings on your PC:

- Open Windows Explorer and select: Tools > Folder Options > File Types.
- Scroll down to and select CSV.
- Click on the Change button to associate an application with CSV files and choose how the file opens.

To clear readings from the gauge without downloading, click on the **Clear Readings** button.



Specification	
ATEX Certificate No.	Baseefa11ATEX0114
IECEx Certificate No.	IECEX BAS 11.0094
Markings	Ex ib IIC T4 Gb Ex ibD T200°C Db
Memory	Stores up to 1000 measurements
Screen	3.1" RGB TFT colour screen with backlight Right/left handed set up
Material Velocity Selection	Preloaded via Drop-Down menu, or user defined.
Transducer	Dual Element
Pulse Rate	Standard transmit pulse rate of 4Hz Adjustable from single shot up to 8Hz
Receiver Bandwidth	1MHz to 15MHz (-3dB points)
Frequency	4MHz, 3mm up to 100mm
Accuracy	+/- 0.05mm
RFID Tag Reader	 Operates with 13.54MHz passive tags Detection range up to 5cm Supports ISO/IEC 15693-2, ISO/IEC 18000-3 tag formats
Battery Details	 3.6V Lithium Thionyl Chloride Cell (19.0Ah, SL-2780/S, Farnell Part No: 118-7256) 100 hours continuous operation with back light restrictions Low battery warning
Operating Temperature	-10°C to +50°C
Interface	USB connector
Dimensions (excluding battery)	160mm (W) x 215mm (H) x 63mm (D)
Weight	930g (without probe)

	Certificate Number Baseefa11ATEX0114/1	Baseefa Issued 21 February 2012 Page 1 of 2
1	SUPPLEMENTARY	EC - TYPE EXAMINATION CERTIFICATE
2	Equipment or Protective	System Intended for use in Potentially Explosive Atmospheres Directive 94/9/EC
3	Supplementary EC - Type Examination Certificate Number:	Baseefa11ATEX0114/1
4	Equipment or Protective System:	Ultrasonic Thickness Gauge
5	Manufacturer:	CorDEX Instruments Limited
6	Address:	Middlesbrough, TS6 6HE
7	equipment or protective systems a	nds EC – Type Examination Certificate No. Baseefa11ATEX0114 to apply to designed and constructed in accordance with the specification set out in the having any variations specified in the Schedule attached to this certificate and
8	Item 9 of the original Certificate is been assured by compliance with:	replaced by "Compliance with the Essential Health and Safety Requirements has
	EN 60079-0:2009 EN 60079-11:	2007 EN 61241-11:2005
	except in respect of those requireme	ints listed at item 18 of the Schedule."
9	The marking of the equipment has c	hanged from the original Certificate and shall include the following:

(a) II 2GD Ex ib IIC T4 Gb Ex ibD IIIB T200°C Db T_{amb} (-10°C to +50°C)

This certificate shall be held with the original certificate and may only be reproduced in its entirety, without any change, schedule included.

Baseefa Customer Reference No. 6684

Project File No. 11/0942

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.

Baseefa Rockhead Business Park, Staden Lane, Buston, Derbyshire SK17 9RZ Telephone +44 (0) 1298 766600 Fax +44 (0) 1298 766601 e-mail info@baseefa.com web site www.baseefa.com Baseefa is a trading name of Baseefa Lid Registered in England No. 4305578. Registered address as above.

Michael Porchai DIRECTOR On behalf of Baseefa

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Certificate Number Baseefa11ATEX0114/1



Issued 21 February 2012 Page 2 of 2

13				Sched	ule	
14		C	ertificate	Number Ba	seefa11ATEX0114/1	
15	Description of the v	ariatio	n to the Ec	quipment or Pr	otective System	
Varia	tion 1.1					
To pe	rmit the addition of the	dust pro	tection cor	ncept "protection	by Intrinsic Safety iD".	
16	Report Number					
GB/B	AS/ExTR12.0004/00					
17	Specific Conditions	of Use				
None						
18	Essential Health an	d Safet	y Requirer	ments		
Comp	liance with the Essentia	l Health	and Safety	y Requirements	is not affected by this variation.	
19	Drawings and Docu	ments				
Numb	ber S	Sheet	Issue	Date	Description	
CDX-	5000-333	1	В	16/01/12	Marking Detail	

IEC.	X	Ex Certif	
	RNATIONAL ELECTR Certification Scheme for rules and details of the IE	for Explosive A	tmospheres
Certificate No.:	IECEx BAS 11.0094	issue No.:1	Certificate history: Issue No. 1 (2012-2-28)
Status:	Current		Issue No. 0 (2011-9-21)
Date of Issue:	2012-02-28	Page 1 of 4	
Applicant:	CorDEX Instruments Limitt 1 Owens Road Skippers Lane Industrial Estate Middlesbrough TS6 6HE United Kingdom	ed	
Electrical Apparatus Optional accessory:	UT-5000 Ultrasonic Thickness	Gauge	
Type of Protection:	Intrinsic Safety		
Marking:	Ex ib IIC T4 Gb (Tamb -10°C to Ex ibD T200°C Db (Tamb -10°		
Approved for issue on Certification Body:	behalf of the IECEx RS:	Sinclair	
Position:	Gene	ral Manager	
Signature: (for printed version)		Multie,	Dictor
Date:		23/2/1	2
2. This certificate is not	chedule may only be reproduced in transferable and remains the prope enticity of this certificate may be ver	rty of the issuing body.	ECEx Website.
ertificate issued by	Baseefa		
Ro	ckhead Business Park		
	Staden Lane		Pagaata
	Buxton Derbyshire		Saseera)
	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 pressence 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.

GB/BAS/ExTR12.0004/00

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

Quality Assessment Report:

GB/SIR/QAR10.0010/02

		Certificate onformity
Certificate No.:	IECEx BAS 11.0094	
Date of Issue:	2012-02-28	Issue No.: 1
		Page 3 of 4
	Schedule	
EQUIPMENT:	overed by this certificate are as follows:	
areas using non-destruction in a protective rubber over The equipment is battery p used. The battery is to be	ve techniques. It comprises three printed circ r boot, a custom cable, and a dual element u	an SL-2780 Lithium Thionyl Chloride cells may be
CONDITIONS OF CERTIF	FICATION: NO	
CONDITIONS OF CERTIF	FICATION: NO	
CONDITIONS OF CERTIF	FICATION: NO	
CONDITIONS OF CERTIF	FIGATION: NO	
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IEC IEĈEx	IEC Ex Certificate of Conformity			
Certificate No.:	IECEx BAS 11.009	4		
Date of Issue:	2012-02-28		Issue No.: 1	
			Page 4 of 4	
DETAILS OF CERTIFICAT	E CHANGES (for issues 1	and above):		
	dust protection concept Ex it	D.		
ExTR: GB/BAS/ExTR12	2.0004/00	File Reference: 1	1/0942	_

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Document Reference 5000M Rev. A

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