INSTRUCTIONS FOR SAFE OPERATIONS

UT5000
INTRINSICALLY SAFE ULTRASONIC THICKNESS GAUGE

RUGGED AUTHORITY www.cord-ex.com
Read This First

The CorDEX UT5000 thickness gauge is a gauge for measuring the wall thickness of pipes or tanks.

Read and understand all Warnings and Cautions before using this product.

Safety Information

This instruction manual contains information and warnings that must be observed for safe operation under the conditions described.

Faults and Damage

If there are any grounds for believing the unit is no longer safe to use, it must be taken out of service and measures taken to prevent its further unintentional use. The safety of the unit may be impaired if, for example:

- External damage to the housing is visible
- The unit has not been stored correctly
- The unit has suffered transport damage

Safety Regulations

When using the UT5000, the appropriate regulations must be observed to avoid incorrect operation of the unit.

ATTENTION! Please make sure that the case is securely fastened when using the unit. The unit must not be opened in the hazardous area. Only probes intended for this instrument must be used.

Batteries

If you change the battery, make sure that the replacement is suitable for the purpose.

The use of different batteries is strictly forbidden.

Calibration

Calibration must be carried out by the manufacturer since the protective circuits must be checked after calibration for safety reasons.

Exchanging Batteries

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Certification

EC Declaration of Conformity
ATEX Certificate
IECEx Certificate

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EXCHANGING BATTERIES

Batteries are inserted into the compartment in the bottom side of the instrument.

To change the battery:

- Half turn the screws on the compartment cover and then carefully lift the cover.
- Make sure that the rubber sealing of the cover will not be damaged or removed from the guiding notch.
- Insert the new battery.

WARNING! Ensure correct orientation according to the sketch on the battery cover to avoid internal damage to the tester.

When exchanging batteries, 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.

ATTENTION! Only use a 3.6V Lithium Thionyl Chloride Cell. The use of different batteries is strictly forbidden.

OPERATIONAL CAUTIONS

The cautions contained in this section do not relate specifically to safe use in hazardous area applications but should be followed to help prevent damage to the device or personnel.

- Keep out of reach of children
- The UT5000 is a precision instrument. Do not drop it, strike it or use excessive force when handling

Maintenance

For safety critical maintenance, please refer to EN60079:17
CERTIFICATION

<table>
<thead>
<tr>
<th>Model</th>
<th>UT5000</th>
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<tbody>
<tr>
<td>ATEX Certificate No.</td>
<td>Baseefa 11ATEX0114</td>
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<td>IECEx Certificate No.</td>
<td>IECEx BAS 11.0094</td>
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<tr>
<td>Certificate Type</td>
<td>II 2G Ex ib IIC T4 Gb</td>
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<tr>
<td>USB Terminal parameter</td>
<td>Um253V</td>
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<td>Ambient Temperature</td>
<td>Tamb -10 to +50°C</td>
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<tr>
<td>Power Supply</td>
<td>1x CorDEX Instruments Battery Part Number: CDX5000-327</td>
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EC DECLARATION OF CONFORMITY

CorDEX

Cordex Instruments Limited
1 Owens Road
Skippers Lane Industrial Estate
Middlesbrough
TS6 6HE

Declaration No. S018 Rev 2

Declaration of Conformity (UT5000) Rev 2.docx

Cordex Instruments Limited

Declaration No.  SO/8  Rev 2

EC Declaration of Conformity
in accordance with EEC ATEX Directive 94/9/EC

We,

CorDEX Instruments Ltd.

Hereby declare that the products described below

Product: Ultrasonic Thickness Gauge
Model: UT5000

are in conformity with the essential health and safety requirements of Council Directive 94/9/EC relating to equipment intended for use in potentially explosive atmospheres (ATEX Directive) Ex II 2GD, Ex ib IIC T4 Gb Ex ibD T200°C Db Tamb (-10°C to +50°C) equipment, by the application of the following Standards:

- EN 60079-0:2009 Explosive atmospheres - Equipment: General requirements

as certified by Notified Body Number 1180 Baseefa Ltd, UK by EC-Type Examination Certificate: Baseefa11ATEX0114 and are subject to the procedure set out in Annex VII of Directive 94/9/EC and these procedures are in conformity with the requirements of EN 13980:2002 under the supervision of Notified Body Number 0518, SIRA Certification Service Rake Lane, Eccleston, Chester, CH4 9JN.

It is ensured through internal measures that the products conform at all times to the requirements of the current EEC Directives and relevant standards.

Signature: [Authorised Person]
Position: Director on behalf of CorDEX Instruments Ltd
Date: 07/10/2014

Product Serial number
ATEX CERTIFICATION

UT5000 – Instructions For Safe Operations

RUGGED AUTHORITY

Document Reference 5000SOM Rev. A

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IECEx CERTIFICATION

IECEx Certificate of Conformity

Certificate No.: IECEx BAS 11.0094
Date of Issue: 2013-02-28
Issue No.: 1
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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The UT-5000 is a 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, a main instrument case housed in a protective housing, a touch-screen keyboard, and a display keyboard. The equipment is battery-powered by a single primary cell. Only Tadiran SL-2700 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 $V_{th} = 250 V$.

CONDITIONS OF CERTIFICATION: NO

IECEx CERTIFICATION

IECEx Certificate of Conformity

Certificate No.: IECEx BAS 11.0094
Date of Issue: 2013-02-28
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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Variation 1.1

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

Ex d IIB [GEx IIC T135°C d135°C]

File Reference: 1108342