



1 **EU-TYPE EXAMINATION CERTIFICATE**

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: **Sira 08ATEX2235X** Issue: **14**

4 Equipment: **Ultraprobe 9000 System**

5 Applicant: **UE Systems**

6 Address: **14 Hayes Street  
Elmsford  
New York  
10523-2536  
USA**

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

8 CSA Group Netherlands B.V., Notified Body Number 2813 in accordance with Articles 17 and 21 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN 60079-0:2006 EN 60079-11:2007  
IEC 60079-0:2007 Edition 5 (used for guidance in respect of marking)

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

11 This EU-Type Examination Certificate relates only to the design and construction of the specified equipment. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:



II 2G  
Ex ib IIB T3 Gb  
Ta = -20°C ≤ Ta ≤ +50°C



I M2  
Ex ib I Mb  
Ta = -20°C ≤ Ta ≤ +50°C

Project Number 80034190

Signed: J A May

Title: Director of Operations

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## SCHEDULE

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#### 13. DESCRIPTION OF EQUIPMENT

The Ultraprobe 9000 System consists of a Pistol and its various sensors, a headset and a Warbling Tone Generator (**Note:** the Warbling Tone Generator is not approved for Group I applications).

The electronics are implemented in six different sub-assemblies: motherboard, micro/memory module, digital display, transmitter configuration module and battery pack. In addition a Headphone Set (Model DHC-9HH) may be plugged into the Pistol.

**Variation 1** - This variation introduced the following changes:

- i. The introduction of the Ultraprobe 9000Mb MPH for Group I applications; this model incorporates the following design changes:
  - Lithium Battery for lower maximum surface temperature.
  - Battery encapsulation for exclusion of explosive atmospheres, moisture or dusts.
  - Handle material change for improved low temperature performance.The model numbers were also clarified as below:
  - Ultraprobe 9000 MPH for use in Group II applications.
  - Ultraprobe 9000Mb MPH for use in Group I applications.
- ii. The Description of Equipment, Special Conditions for Safe Use, Conditions of Certification and markings were rationalised and updated accordingly.

**Variation 2** - This variation introduced the following changes:

- i. The I/O Cable housing was updated.
- ii. Additional diodes (D4-6) were introduced into the I/O Cable protection circuit.
- iii. The Special Conditions for Safe Use and the Conditions of Certification were amended to reinforce the fact that only a type 4PC-USB data cable can be used for data download.

**Variation 3** - This variation introduced the following changes:

- i. The Printed Circuit Board (PCB) UP9000 Main was modified to allow the addition of a capacitor C77 and a diode array D7.
- ii. A 'daughter' PCB was introduced that contains diode array D7 for equipment retro-fit.
- iii. The introduction of an alternative Microcontroller (U23).
- iv. The introduction of an alternative Switch Encoder.

**Variation 4** - This variation introduced the following change:

- i. The printed circuit board layout was modified to support D7.

**Variation 5** - This variation introduced the following change:

- i. The data cable and the transistor package were both modified.
- ii. The introduction of additional, French marking was approved.
- iii. The application of the Warbling Tone Generator was allowed and a special condition for safe use was introduced.
- iv. The special conditions for safe use were revised taking into account those applied in certificate number Sira 04ATEX2269X for the Ultraprobe 2000MPH.

**Variation 6** - This variation introduced the following change:

- i. Permit the use of Panasonic HHR-70AAA cells.



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**Variation 7** - This variation introduced the following change:

- i. Introduction of TENERGY AAA 10407 rechargeable cells.

**Variation 8** - This variation introduced the following change:

- i. Permit the replacement of surface mount integrated circuits with through-hole equivalents using a conversion printed circuit board.

**Variation 9** - This variation introduced the following changes:

- i. Component packages.
- ii. Printed circuit board layout.
- iii. Marking.
- iv. Removal of electrostatic charge special condition.
- v. Non-hazardous location corrections to the certificate.

**Variation 10** - This variation introduced the following changes:

- i. Printed circuit board revision change for manufacturing purposes.
- ii. Notified Body number coding changed from 0518 to nnnn.

**Variation 11** - This variation introduced the following changes:

- i. Update of the UP9000 design control document for manufacturing flexibility.

## 14 DESCRIPTIVE DOCUMENTS

### 14.1 Drawings

Refer to Certificate Annexe.

### 14.2 Associated Sira Reports and Certificate History

| Issue | Date              | Report no. | Comment  |
|-------|-------------------|------------|--|
| 0     | 9 December 2009   | R17917A    | The release of the prime certificate.  |
| 1     | 2 August 2011     | R17917A/01 | Report number R17917A/01 replaced R17917A/00 to correct a typographical error, no technical changes were involved.   |
| 2     | 3 April 2012      | R24986A/00 | The introduction of Variation 1.   |
| 3     | 16 May 2012       | R26926A/00 | The introduction of Variation 2.   |
| 4     | 31 October 2012   | R24986A/01 | Report no. R24986A/01 replaced R24986A/00.   |
| 5     | 26 September 2013 | R31103A/00 | The introduction of Variation 3.   |
| 6     | 12 December 2013  | R32421A/00 | The introduction of Variation 4.   |
| 7     | 01 July 2015      | R70015588A | The introduction of Variation 5.   |
| 8     | 14 November 2016  | R70104481A | <p>This Issue covers the following changes:</p> <ul style="list-style-type: none"> <li>• EC Type-Examination Certificate in accordance with 94/9/EC updated to EU Type-Examination Certificate in accordance with Directive 2014/34/EU. <i>(In accordance with Article 41 of Directive 2014/34/EU, EC Type-Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Variations to such EC Type-Examination Certificates may continue to bear the original certificate number issued prior to 20 April 2016.)</i></li> <li>• The introduction of Variation 6.</li> </ul> |

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| Issue | Date              | Report no. | Comment  |
|-------|-------------------|------------|--|
| 9     | 19 January 2017   | R70104481B | The introduction of Variation 7.   |
| 10    | 30 November 2017  | R70158888A | The introduction of Variation 8.   |
| 11    | 04 December 2018  | R70189041A | The introduction of Variation 9.   |
| 12    | 05 September 2019 | R80009311A | The introduction of Variation 10   |
| 13    | 15 October 2019   | 0673       | Transfer of certificate 08ATEX2235X from Sira Certification Service to CSA Group Netherlands B.V.. |
| 14    | 17 March 2020     | R80034190A | The introduction of Variation 11.  |

#### 15 SPECIFIC CONDITIONS OF USE (denoted by X after the certificate number)

##### 15.1 The following conditions apply to the **Ultraprobe 9000 MPH for Group II applications**

15.1.1 Whilst the battery packs used in this equipment may be changed by the user in an area that is known to be non-hazardous, they shall only be replaced with products supplied by UE Systems Inc.

15.1.2 The battery packs shall only be recharged in an area that is known to be non-hazardous and by a charger having a maximum output of voltage of 15 V d.c and a maximum output current of 60 mA. (e.g. The charger supplied by UE Systems Inc.).

15.1.3 The enclosure and a number of accessories including the carry case are manufactured from aluminium. In rare cases, ignition sources due to impact and friction sparks could occur. Therefore care should be taken to avoid the risk of drop and impact during storage, transportation and use.

15.1.4 Only the supplied headset, Model DHC-9HH, shall be used with this equipment.

15.1.5 Only an approved data cable physically identified as a type 4PC-USB shall be used for data download.

15.1.6 Under certificate Sira 04ATEX2269X, the Warbling Tone Generator has been certified to a maximum ambient temperature of +40°C. A maximum ambient temperature of +50°C is permissible when used as part of a ULTRAPROBE 9000 SYSTEM.

##### 15.2 The following conditions apply to the **Ultraprobe 9000Mb MPH for Group I applications**

15.2.1 The user shall not replace the battery pack used in this equipment, this shall only be performed by the manufacturer, in addition, the battery pack shall only be recharged in a safe area.

15.2.2 The enclosure and a number of accessories including the carry case are manufactured from aluminium. In rare cases, ignition sources due to impact and friction sparks could occur. Therefore care should be taken to avoid the risk of drop and impact during storage, transportation and use.

15.2.3 Only the supplied headset, Model DHC-9HH shall be used with this equipment.

15.2.4 Only an approved data cable physically identified as a type 4PC-USB shall be used for data download.

#### 16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

# Certificate Annexe



Certificate Number: Sira 08ATEX2235X  
 Equipment: Ultraprobe 9000 System  
 Applicant: UE Systems

## Issue 0

| Drawing No. | Sheets  | Rev. | Date (Sira stamp) | Title   |
|-------------|---------|------|-------------------|---|
| KEP01300601 | 1 of 1  | -    | 08 Dec 09         | UP 9000 MPH Recharge Plate and I/O Plate Label                              |
| KEP0424JG01 | 1 of 1  | -    | 08 Dec 09         | BPA-9 Label Information   |
| KEP0414JG03 | 1 of 1  | -    | 08 Dec 09         | DHC-9HH Label Information   |
| KEP0414JG01 | 1 of 1  | -    | 08 Dec 09         | UP9000 Kit Parts Identification   |
| KEP09141E02 | 1 of 1  | -    | 08 Dec 09         | Handle Right  |
| KEP09141E01 | 1 of 1  | -    | 08 Dec 09         | Handle Left   |
| KEP0103502  | 1 of 1  | -    | 08 Dec 09         | UP2000 Handle End Cap (Cap without holes)                                   |
| KEP0103501  | 1 of 1  | -    | 08 Dec 09         | Ultraprobe 2000 Trigger with molded Pin                                     |
| KEP0901JE01 | 1 of 1  | -    | 08 Dec 09         | Handle End Protection Plate Detail  |
| KEP0504JF01 | 1 to 3  | -    | 08 Dec 09         | BPA-9 Battery Pack Assembly Details   |
| KEP0508JF01 | 1 of 1  | -    | 08 Dec 09         | Battery Connector Sleeve Procedure and Insulation Placement – UP9000 MPH    |
| KEP1130B101 | 1 of 1  | -    | 08 Dec 09         | UP9000 Battery Connector Wire Spacing Details                               |
| KEP1120B101 | 1 of 1  | -    | 08 Dec 09         | Battery Cable to Circuit Board Details                                      |
| KEP0917JA01 | 1 of 1  | F    | 08 Dec 09         | Schematic, UP9000   |
| UP9_PWR     | 1 to 11 | F    | 08 Dec 09         | PCB, UP9000 Power Supply (Component & Trace Layouts)                        |
| UP9000 MAIN | 1 to 11 | F    | 08 Dec 09         | PCB, UP9000 DB Converter, Main Board, Audio Amp (Component & Trace Layouts) |
| UP9_XD_C    | 1 to 8  | C    | 08 Dec 09         | PCB, UP9000 Transducer Preamp (Component & Trace Layouts)                   |
| KEP0917JA02 | 1 to 5  | -    | 08 Dec 09         | Component Lists   |
| KEP1102BG01 | 1 of 1  | -    | 08 Dec 09         | UP-9000.UP10000 Wire, PC Board & Housing Specifications                     |
| KEP0603J101 | 1 of 1  | -    | 08 Dec 09         | UP9000 ATEX MPH Circuit Board Encapsulation Details                         |
| KEP0915JE01 | 1 of 1  | -    | 08 Dec 09         | Memory Lithium Cell Protection Circuit Details                              |
| KEP0612JG01 | 1 of 1  | -    | 08 Dec 09         | Memory Lithium Cell Protection Circuit Board                                |
| KEP0531JG01 | 1 of 1  | -    | 08 Dec 09         | Protective Diode Attachment Details   |
| KEP0407JB01 | 1 of 1  | -    | 08 Dec 09         | Piezoelectric Transducer Specifications                                     |
| KEP1104301  | 1 of 1  | -    | 08 Dec 09         | Ultraprobe Headset Schematic (Model DHC-9HH)                                |
| KEP0923BH01 | 1 of 1  | -    | 08 Dec 09         | I/O Data Cable Protection Circuit   |

Issue 1 (No new drawings were introduced.)

## Issue 2

| Drawing no. | Sheets | Rev. | Date (Sira stamp) | Title   |
|-------------|--------|------|-------------------|---|
| KEP0109AB01 | 1      | 0    | 17 Jan 12         | UP9000Mb Handle & Battery Cable Termination Details |
| KEP0111AB01 | 1      | 0    | 17 Jan 12         | UP9000Mb Handle Details                             |
| KEP1006JA01 | 1      | 0    | 17 Jan 12         | Encapsulated Lithium Battery                        |
| KEP0307AB01 | 1      | 0    | 08 Mar 12         | UP 9000mb mph recharge plate & I/O plate label      |

## Issue 3

| Drawing no. | Sheets | Rev. | Date (Sira stamp) | Title                                |
|-------------|--------|------|-------------------|--------------------------------------|
| KEP0923BH01 | 1 of 1 | -    | 24 Jan 12         | I/O Data Cable Protection Circuit    |
| KEP0409AB01 | 1 of 1 | -    | 25 Apr 12         | KEP0409AB01 DATA CABLE WARNING LABEL |

Note: The manufacturer's 'revised date' on the above drawing no's. KEP0923BH01 and KEP0409AB01 are stated as 12-27-2011 and 04-09-2012 respectively.

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# Certificate Annexe



Certificate Number: Sira 08ATEX2235X  
Equipment: Ultraprobe 9000 System  
Applicant: UE Systems

Issue 4 (No new drawings were introduced.)

## Issue 5

| Drawing     | Sheets  | Rev.      | Date (Sira stamp) | Title                             |
|-------------|---------|-----------|-------------------|-----------------------------------|
| KEP0917JA01 | 1 of 1  | G         | 17 Sep 13         | Schematic, UP9000                 |
| KEP0917JA02 | 1 to 6  | 6-14-2013 | 13 Sep 13         | UP9000 BOM                        |
| UP9000 MAIN | 1 to 11 | G         | 17 Sep 13         | PCB UP9000                        |
| KEP0910AC01 | 1 of 1  | 9-10-2013 | 12 Sep 13         | UP9000 Data Line Protective Diode |

## Issue 6

| Drawing     | Sheets | Rev.     | Date (Sira stamp) | Title                             |
|-------------|--------|----------|-------------------|-----------------------------------|
| KEP0910AC01 | 1 of 1 | 10-14-13 | 02 Dec 13         | UP9000 Data Line Protective Diode |

## Issue 7

| Drawing      | Sheets | Rev.      | Date (Sira stamp) | Title  |
|--------------|--------|-----------|-------------------|--|
| KEP0923BH01  | 1 of 1 | 6-20-2014 | 30 Jul 14         | I/O Data Cable Protection Circuit            |
| KEP0917JA02  | 1 to 6 | 6-09-2014 | 31 Jul 14         | UP9000 BOM                                   |
| KEP 01300601 | 1 of 1 | 8-5-2014  | 06 Aug 14         | UP 9000 MPH Recharge Plate & I/O Plate Label |

## Issue 8

| Drawing     | Sheets | Rev.    | Date (Sira stamp) | Title                               |
|-------------|--------|---------|-------------------|-------------------------------------|
| KEP0504JF01 | 1 to 3 | 11-1-16 | 02 Nov 16         | BPA-9 Battery Pack Assembly Details |

## Issue 9

| Drawing     | Sheets | Rev.     | Date (Sira stamp) | Title                               |
|-------------|--------|----------|-------------------|-------------------------------------|
| KEP0504JF01 | 1 to 3 | 12-23-16 | 28 Dec 16         | BPA-9 Battery Pack Assembly Details |

## Issue 10

| Drawing     | Sheets | Rev.      | Date (Sira stamp) | Title  |
|-------------|--------|-----------|-------------------|--|
| KEP0803AG01 | 1 of 1 | 8-29-2017 | 17 Nov 17         | Conversion Board for Thru Hole to Surface Mount Circuit Traces |

## Issue 11

| Drawing        | Sheets | Rev.       | Date (Sira stamp) | Title  |
|----------------|--------|------------|-------------------|--|
| KEP0917JA02    | 1 to 6 | 6-08-2018  | 17 Jul 18         | UP9000 BOM   |
| KEP0917JA01    | 1 of 1 | H          | 17 Jul 18         | Schematic, UP9000                                      |
| UP9000 MainPCB | 1 to 6 | H          | 18 Jul 18         | PCB UP9000   |
| KEP0307AB01    | 1 of 1 | 07-24-2018 | 25 Jul 18         | UP9000Mb LABEL (MINING)                                |
| KEP10221801    | 1 of 1 | 10-30-18   | 01 Nov 18         | UP9000 & UP10000 Plastic And Powdercoat Specifications |

## Issue 12

| Drawing      | Sheets  | Rev.     | Date (Sira stamp) | Title  |
|--------------|---------|----------|-------------------|--|
| UP9_PWR      | 1 to 11 | H        | 05 Aug 19         | PCB, UP9000 Power Supply (Component & Trace Layouts) |
| KEP 01300601 | 1 of 1  | 8-5-19   | 08 Aug 19         | UP9000 MPH recharge plate & I/O plate label          |
| KEP0307AB01  | 1 of 1  | 08-16-19 | 20 Aug 19         | UP9000Mb Label (Mining)                              |

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# Certificate Annexe



Certificate Number: Sira 08ATEX2235X  
Equipment: Ultraprobe 9000 System  
Applicant: UE Systems

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**Issue 13** (No new drawings were introduced.)

**Issue 14**

| Drawing     | Sheets | Rev.       | Date (Stamp) | Title  |
|-------------|--------|------------|--------------|--|
| KEP1102BG01 | 1 of 1 | 01-21-2020 | 27 Feb 20    | UP-9000 Electronic Component, Wire, PC Board, & Housing Control Document |

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