



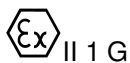
## EU Type Examination Certificate CML 20ATEX2016 Issue 0

- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Equipment **Portable Gas Detector type ARA\*\*\*\***
- 3 Manufacturer **Ion Science Ltd.**
- 4 Address **The Hive, Butts Lane, Fowlmere,  
Royston, SG8 7SL, UK**
- 5 The equipment is specified in the description of this certificate and the documents to which it refers.
- 6 CML B.V., Chamber of Commerce No 6738671, Hoogoorddreef 15, Amsterdam, 1101 BA, The Netherlands, Notified Body Number 2776, in accordance with Article 17 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 12.
- 7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.
- 8 This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacture of the equipment or component and are separately certified.
- 9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN IEC 60079-0:2018

EN 60079-11:2012

- 10 The equipment shall be marked with the following:



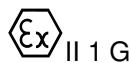
Ex ia IIC T4 Ga

Ta = -40 °C to +60 °C

ARA100, ARA200,

ARA400, ARA100H and

ARA200H;



Ex ia IIC T4 Ga

Ta = -30 °C to +60 °C

ARA300



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## 11 Description

The Portable Gas Detector type ARA\*\*\*\* are personal safety devices designed to detect the presence of specific toxic gases (Hydrogen Sulfide (H<sub>2</sub>S), Carbon Monoxide (CO), Sulfur Dioxide (SO<sub>2</sub>) or Oxygen (O<sub>2</sub>) deficiency.

The detector comprises a hand-held detector with a specific sensor which determines the type number.

ARA100	Hydrogen Sulfide (H <sub>2</sub> S) gas detector
ARA200	Carbon Monoxide(CO) gas detector
ARA300	Oxygen(O <sub>2</sub> ) gas detector
ARA400	Sulfur Dioxide(SO <sub>2</sub> ) gas detector
ARA100H	Hydrogen Sulfide(H <sub>2</sub> S) gas detector - Hibernation Option
ARA200H	Carbon Monoxide(CO) gas detector - Hibernation Option

In the case of an alarm, the detector can provide flashing LED, audible and vibration warnings. Communications with the detector is made via an infrared port in the safe area.

## 12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	12 Feb 2020	R13022A/00	Initial Issue

Note: Drawings that describe the equipment or component are listed in the Annex.

## 13 Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

- i. Where the product incorporates certified parts or safety critical components the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.

## 14 Specific Conditions of Use (Special Conditions)

There are no conditions relate to safe installation and/or use of the equipment.

## Certificate Annex

**Certificate Number** CML 20ATEX2016  
**Equipment** Portable Gas Detector type ARA\*\*\*\*  
**Manufacturer** Ion Science Ltd.



The following documents describe the equipment or component defined in this certificate:

### Issue 0

Drawing No	Sheets	Rev	Approved date	Title
ARA_UNIT_BOM	1 of 1	2.4	12 Feb 2020	ARA Bill of Materials
ST401M020-ARA-asm	1 of 1	A	12 Feb 2020	General Assembly
ST401M031-Back Label	1 of 1	A	12 Feb 2020	Certification Label
ST401M030-Bubble Label	1 of 1	C	12 Feb 2020	Label