

1 EC TYPE EXAMINATION CERTIFICATE

2 Equipment or protective system intended for use in potentially explosive atmospheres –
Directive 94/9/EC – Annex III

3 EC Type Examination Certificate No.: **TRL06ATEX21095X**
4 Equipment: **Cam Lock Shield - portable single-gas detector**
5 Manufacturer: **Aerion Technologies Inc**
6 Address: **6555 S. Kenton Street
Suite 304
Centennial
CO 80111
USA**

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

8 TRL Compliance Ltd, Notified Body number 0891 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment or protective system intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential report **XU1305C/6899**.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in section 18 of the schedule to this certificate, has been assured by compliance with:

EN50014:1997/A2:1999 and EN50020:2002

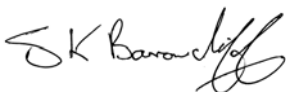
10 If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions of safe use specified in the schedule to this certificate.

11 This EC-Type Examination certificate relates only to the design and construction of the specified equipment in accordance with Directive 94/9/EC. Further requirements of this Directive apply to the manufacture and supply of this equipment.

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

Ex II 2 G EEx ia IIC T4 Tamb = -20°C to +50°C

This certificate and its schedules may only be reproduced in its entirety and without change. This certificate is issued in accordance with the TRL ATEX Certification Scheme.



S K Barrowcliff, Director, Safety Division

Issue date: 19 June 2006

Copy No.: 1e

Distribution:
Aerion Technologies Inc and TRL Compliance Ltd

13 **SCHEDULE TO EC TYPE EXAMINATION CERTIFICATE**

14 **CERTIFICATE NUMBER TRL06ATEX21095X**

15 **General description of equipment or protective system included within the scope of this certificate**

The Cam Lock Shield is a portable single gas detector with approximate dimensions 9cm x 5cm x 3cm. It is housed in a polymeric enclosure with a display screen mounted within the front of the equipment. It can monitor either oxygen (OX), hydrogen sulfide (HS) or carbon monoxide (CO) depending on the sensor configuration. When the gas concentrations reach or exceed gas alarm levels, the user is alerted by a bright alarm light, audible buzzer and an internal vibrating alarm. The equipment is powered from a permanently fitted (and non-replaceable) lithium battery. The equipment is disposed of at end of battery life.

The equipment certified is the Cam Lock Shield, manufactured by Aerion Technologies.

The following models are covered by this certificate:

954-495-100-EX Cam Lock Shield ATEX - OX (Oxygen)

954-495-101-EX Cam Lock Shield ATEX - CO (Carbon Monoxide)

954-495-102-EX Cam Lock Shield ATEX - HS (Hydrogen Sulphide)

Scheduled drawings and documents

<u>Document</u>	<u>Issue</u>	<u>Date</u>	<u>Pages</u>	<u>Description</u>
526-030-700	1	13 Jun 03	1	Shield Top Housing
526-030-701	1	13 Jun 03	1	Shield Bottom Housing
526-030-704	1	07 May 03	1	Shield LCD window
526-030-705	1	25 Jun 03	1	Shield LED window
593-030-701-CL-2	2	11 Aug 05	1	Shield HS Cam-Lock faceplate
593-030-702-CL-2	2	11 Aug 05	1	Shield OX Cam-Lock faceplate
593-030-703-CL-2	2	11 Aug 05	1	Shield CO Cam-Lock faceplate
EX-500-033-100	1.02	24 Mar 06	6	Shield PCB fabrication – ATEX
EX-593-030-700	4	26 Apr 06	1	Shield approvals label - ATEX
EX-679-701-000 DWG	2	27 Apr 06	1	Shield Cam Lock ATEX Manual
EX-927-033-100	1.00	15 Feb 06	2	Shield PCA Top Assembly
EX-927-033-100-BOM	1.04	28 Apr 06	2	Shield OX gas detector BOM
EX-927-033-100-SCH	1.03	10 Apr 06	4	Shield OX gas detector PCA
EX-927-033-101-BOM	1.04	28 Apr 06	2	Shield CO gas detector BOM
EX-927-033-101-SCH	1.03	10 Apr 06	4	Shield CO gas detector PCA
EX-927-033-102-BOM	1.04	28 Apr 06	2	Shield HS gas detector BOM
EX-927-033-102-SCH	1.03	10 Apr 06	4	Shield HS gas detector PCA

16 **Test report No.:** XU1305C/6899

17 **Special conditions for safe use**

The Cam Lock Shield must not be wiped clean or rubbed in a hazardous area to prevent an electrostatic hazard.

18 **Essential health and safety requirements**

Covered by application of the standards listed in section 9 of this certificate and the assessment conducted in the test report listed in section 16 of this certificate.

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19 **Additional information**

Special condition for manufacture

All encapsulant should have a minimum depth of 1mm around the fuses FU1 and FU2 (drawing 927-033-100 Rev 1.00 (Shield PCA Top Assembly) refers).

Photograph



Details of markings



Details of variations to this certificate

None

Notes to CE marking

In respect of CE Marking, TRL Compliance Ltd accepts no responsibility for the compliance of the equipment against all applicable Directives in all applications.