

IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION **IEC Certification System for Explosive Atmospheres**

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx SIR 18.0058	Page 1 of 4	Certificate history:
			Issue 0 (2018-11-06)
Status:	Current	Issue No: 1	
Date of Issue:	2019-03-15		
Applicant:	RAE Systems, Inc. A Honeywell Company 1349 Moffett Park Drive Sunnyvale California 94089 United States of America		
Equipment:	Handheld Toxic Gas Monitor		
Optional accessory	r.		
Type of Protection:	Intrinsic Safety		
Marking:	Ex ia IIC T4 Ga Ex ia I Ma Tamb = -40°C to +60°C		
Approved for issue on behalf of the IECEx Certification Body:		C Ellaby	
Position:		Deputy Certification Manager	
Signature: (for printed version)			
Date:			
2. This certificate i	and schedule may only be reproduced in full. is not transferable and remains the property of th authenticity of this certificate may be verified by	ne issuing body. visiting www.iecex.com or use of this QR Co	ode.



Certificate issued by:

SIRA Certification Service CSA Group Unit 6, Hawarden Industrial Park Hawarden, Deeside, CH5 3US **United Kingdom**







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Manufacturer: RAE Systems, Inc. A Honeywell Company

1349 Moffett Park Drive

Sunnyvale California 94089

United States of America

RAE Systems (Shanghai) Inc. Additional

manufacturing No. 990 E. Huiwang Rd JiaDing District, Shanghai 201815 locations:

China

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 equipment 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 60079-0:2011 Explosive atmospheres - Part 0: General requirements

Edition:6.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

Edition:6.0

This Certificate does not indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

GB/SIR/ExTR18.0201/00 GB/SIR/ExTR19.0076/00

Quality Assessment Reports:

NO/PRE/QAR16.0005/01 NO/PRE/QAR16.0006/01



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The subject instrument is a Handheld Toxic Gas Monitor for continuously display of gas concentrations. The physical dimensions are 70mm*67mm*25 (30mm with 4R sensor) mm. Its weight is around 100g. It is handheld and battery powered, front and back area housed in a transparent plastic material (PC), partially covered with stainless steel and soft thermoplastic rubber material (TPE). The front, which is partially covered with stainless steel, has LCD display and pushbuttons for navigation and programming. The back of the enclosure is equipped with a metallic belt clip.

Refer to Annexe for additional EQUIPMENT information.

SPECIFIC CONDITIONS OF USE: NO



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above) This issue, Issue 1, recognises the following change:

1. The Addition of a ER14335 Thionyl Chloride Li-ion battery manufactured by TITUS and XLO-055F manufactured by XENO Energy.

Annex:

IECEx SIR 18.0058 Annexe Iss 1.pdf

Annexe to: IECEx SIR 18.0058 Issue 1

Applicant: RAE Systems, Inc. A Honeywell Company





EQUIPMENT (continued)

The full equipment description is shown as follows:

The subject instrument is a Handheld Toxic Gas Monitor for continuously display of gas concentrations. The physical dimensions are 70mm*67mm*25 (30mm with 4R sensor) mm. Its weight is around 100g. It is handheld and battery powered, front and back area housed in a transparent plastic material (PC), partially covered with stainless steel and soft thermoplastic rubber material (TPE). The front, which is partially covered with stainless steel, has LCD display and pushbuttons for navigation and programming. The back of the enclosure is equipped with a metallic belt clip.

It is supplied by a Li-SOCI2 battery. The battery is provided with infallible safety circuits including infallible resistors.

This instrument normally equips with electrochemical Clydesdale Whittle sensor / 4R sensor, an optional wireless modem, audible and visual alarm indicators. The visual alarm comprises a Red LED bar visual from the top and bottom. The push button of facilitates the access to measured levels or alarms, and the mode button makes it possible to change pre-set limits and setting, additionally, the imbalanced motor produces a vibration alert when in alarm mode.

The model number refers to following table. All models have same schematic design. However, the external dimension of Clydesdale 4R sensor is bigger than Clydesdale whittle sensor, so the PCB layout is a little bit different between Clydesdale-whittle and Clydesdale-4R. The rest of model number have no effects on the circuit design of BWSa-bbc-d.

a:	Product version	empty	Standard version
		1	Wireless version
		2	Low cost version
bb:	Gas type	b	Detect gas
		bb	Detect extended gas
c:	Sensor type	L	Clydesdale Whittle sensor
		empty	Clydesdale 4R sensor
d:	Color	Υ	Yellow
		В	Black

Sira Certification Service

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Date:

15 March 2019