



1 **EU-TYPE EXAMINATION CERTIFICATE**

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

3 Certificate Number: **Sira 11ATEX2197X** Issue: **8**

4 Equipment: **GA5000, GEM5000 & Biogas 5000 Methane Detector
(also known as the GA5K range)**

5 Applicant: **QED Environmental Systems Inc.**

6 Address: **2355 Bishop Cir W
Dexter
MI 48130
United States**

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 IEC 60079-0:2018 EN 60079-11:2012

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 IIA T1 Gb
(-10°C ≤ Ta ≤ +50°C)



Signed: Michelle Halliwell

Title: Director of Operations

Project Number 80192694

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SCHEDULE

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Issue 8

13 DESCRIPTION OF EQUIPMENT

The GA5K range of analysers includes the following models: GA5000, GEM5000 and Biogas5000 Portable battery-powered methane detectors. The models are identical except for different firmware and plumbing. The equipment is housed inside an IP54 enclosure that is made from PC/ABS with a TPE over-moulded hand grip and splash-proof seal. The battery pack consists of six, rechargeable, Nickel Metal Hydride (Ni-MH) cells. Internally, there are five PCBs, which include a Windows CE (Processor) PCB, a Sensor PCB, a Display PCB, a Pyro PCB and a Bulb PCB. There is also included a motor-driven sample pump. A solenoid is included to enable pressure readings to be taken in addition to the gas samples. There are several gas-sensitive cells and pressure sensors. Measurement of hydrocarbons is made with an infrared source that is produced by a standard tungsten filament bulb.

Connector 'A' - USB Data Port: The GA5K may be connected to a USB Data Port whilst in the Safe Area via Connector 'A', $U_m = 6 \text{ V}$.

Connector 'B' - Battery Charger: The GA5K may be recharged whilst in the Safe Area via Connector 'B' with a Battery Charger, $U_m = 10.1 \text{ V}$.

Connector B – Temperature Probe: Alternatively, a Temperature Probe, Type GF5.2 (part of this certificate), may be attached to Connector 'B', this probe may be used in the hazardous area, in which case:

$U_o = 5 \text{ V}$ $I_o = 6 \text{ mA}$ $P_o = 7 \text{ mW}$ $C_i = 0$ $L_i = 0$ $C_o = 100 \mu\text{F}$ $L_o = 1000 \text{ mH}$

Connector 'C' - Anemometer

$U_o = 10 \text{ V}$ $I_o = 5 \text{ mA}$ $P_o = 50 \text{ mW}$ $C_i = 0$ $L_i = 0$ $C_o = 100 \mu\text{F}$ $L_o = 1000 \text{ mH}$

Variation 1 - This variation introduced the following changes:

- i. The introduction of a modified version of the Display Board, which incorporated minor track changes, allowing adjustment of the viewing angle, and the connector was increased from 110 ways to 112 ways.
- ii. Changes to the Processor Board Power circuit, resistor R124 ($5R6 \pm 5\%$) on the Sensor board has been altered to a ($6R8 \pm 5\%$). This has reduced the circuit current from 902 mA to 815 mA.
- iii. The circuitry associated with the voltage regulators has been redesigned to reduce the current drain on the Windows CE (Processor) board.
- iv. Changes were made to the BOM to correct minor errors relating to components that were deemed to be safety components and were not shown as such.
- v. To permit the Varta VH400 4/3A 1.2V 4Ahr cells used in the battery pack to be replaced by Panasonic HHR-450A/FT 1.2V 4.5A. This battery pack has a part number 2011113, the Special Conditions For Safe Use were amended accordingly.
- vi. Resistor R150 (470K) has been added to the circuit, this has no effect on the original intrinsic safety assessment.



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Variation 2 - This variation introduced the following changes:

- i. A new 'Biased Cell Regulator Circuit' was added to the Sensor PCB.
- ii. The bulb PCB was modified to include two separate holes for connecting the bulb and the wires.
- iii. The PIC circuit area in the Sensor PCB was modified to incorporate the changes required to connect to the new 'Biased Cell Regulator Circuit'.
- iv. The wider use of electrochemical cells was allowed.
- v. The speaker wiring colours were corrected.
- vi. The display insulator was modified.
- vii. The use of an alternative GPS Antenna was recognised.

Variation 3 - This variation introduced the following changes:

- i. Following appropriate assessment to demonstrate compliance with the latest technical knowledge, the standards previously listed, were replaced by EN 60079-0:2012/A11:2013 and EN 60079-11:2012.
- ii. To allow the use of additional electrochemical cells, 4, 5 and 7 series.
- iii. To allow alternative value for resistor R104 and to allow modification of the part number for U23.
- iv. To recognise various other minor drawing modifications which are administrative or involve changes to the design that do not affect the aspects of the product that are relevant to explosion safety.
- v. To allow use of new enclosure material.
- vi. To allow an alternative bulb type to be used.
- vii. To recognise additional label drawing.
- viii. To allow replacement of fuses F1, F2 and F3 on the Windows CE (Processor) board.
- ix. To recognise the declared maximum radiated optical power of the bulb.

Variation 4 - This variation introduced the following changes:

- i. Change to Manufacturer's Name & Address.
- ii. Change in Notified Body number.
- iii. Number of cable cores in the temperature probe.
- iv. Oxycell assembly modifications.

Variation 5 - This variation introduced the following changes:

- i. An alternative connection of JR1, JR2, JR3 which is a change from solid pin connections to fly lead connections.
- ii. Standard upgrade from EN 60079-0:2012 to EN IEC 60079-0:2018.
- iii. New label drawing EX079 equivalent to the existing label drawing (EX077) but with non-relevant certification details removed.

Variation 6 - This variation introduced the following changes:

- i. To permit the use of an alternative enclosure material.
- ii. To permit changes to the voltage ratings of Zener diodes fitted to the display board.

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Variation 7 - This variation introduced the following changes:

- i. To change the name and address on the certificate.

From:	To:
QED Environmental Systems Cyan Park Unit 3 Coventry CV2 4QP United Kingdom	QED Environmental Systems, Inc. 2355 Bishop Cir W Dexter MI 48130 United States

- ii. To remove drawings EX003 and EX079 from SIRA 11ATEX2197X and IECEx SIR 11.0089X and replace with EX003-CSA.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Reports and Certificate History

Issue	Date	Report number	Comment
0	5 October 2011	R23908A/00	The release of the prime certificate.
1	02 April 2013	R27937A/00	The introduction of Variation 1.
2	25 April 2014	R33303A/00	<ul style="list-style-type: none">Report R27937A/00 was replaced by report R27937A/01 to correct typographical errors. The introduction of Variation 2.
3	23 August 2017	R70061027A	This Issue covers the following changes: <ul style="list-style-type: none">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>The introduction of Variation 3.
4	19 February 2019	R70194673A	The introduction of Variation 4.
5	15 October 2019	0805	Transfer of certificate Sira 11ATEX2197X from Sira Certification Service to CSA Group Netherlands B.V.
6	05 March 2021	R80064719A	The introduction of Variation 5.
7	25 April 2022	R80111650A	The introduction of Variation 6.
8	Inserted on Issue	R80192694A	The introduction of Variation 7.

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

15.1 This equipment is not designed for use in oxygen-enriched atmospheres i.e. greater than 21% oxygen.

15.2 This equipment can contain gas sensing heads for the detection of particular gasses. The inclusion of a sensor does not infer that the equipment is suitable for the use of gases with a temperature class of less than T1.

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- 15.3 Do not re-charge the battery or connect to USB port in hazardous locations.
- 15.4 The maximum input voltage, U_m , at the USB port Connector 'A' of the GA5K shall not exceed 6 V. The safe area apparatus that is to be connected to the USB Port shall be a Safety Extra Low Voltage (SELV) or Protective Extra Low Voltage (PELV) circuit.
- 15.5 Only Battery Charger Type GF3.9 shall be used to recharge the batteries via Connector 'B'.
- 15.6 Only QED Environmental Systems battery packs part numbers 20087 or 2011113 are permitted as a replacement. These battery packs shall only be changed in a safe area (non-hazardous area).

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.

17 CONDITIONS OF MANUFACTURE

- 17.1 The use of this certificate is subject to the Regulations Applicable to Holders of CSA Group Netherlands B.V. certificates.
- 17.2 Holders of EU-Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU.
- 17.3 The equipment incorporates the following, component-certified device as listed below; it is therefore the responsibility of the manufacturer to continually monitor the status of the certification associated with these devices, and the manufacturer shall inform Sira of any modifications of the devices that may impinge upon the explosion safety design of their products.

PID Hydrocarbon Sensors			
Manufacturer	Type	Certificate no.	Code
Baseline Mocon	piD-Tech Plus	Demko 06ATEX0547796U	EEx ia IIC (-20°C ≤ Ta ≤ +60°C)

Certificate Annexe



Certificate Number: Sira 11ATEX2197X

Equipment: GA5000, GEM5000 & Biogas 5000 Methane Detector
(also known as the GA5K range)

Applicant: QED Environmental Systems Inc.

Issue 0

Drawing	Sheets	Rev.	Date (Stamp)	Title
EX003	1 of 1	1	08 Sep 11	GeoTech Rear Certification Label for GA5000
EX004	1 of 1	1	08 Sep 11	Electrochemical Cells & PID Location for GA5000
EX005	1 of 1	1	08 Sep 11	Battery Wiring Diagram for GA5000
EX006	1 of 1	1	08 Sep 11	Processor Board Solder Side Component Layout for GA5000
EX007	1 of 1	1	08 Sep 11	Processor Board Component Side Component Layout for GA5000
EX008	1 of 1	1	08 Sep 11	PID & Cell Information for GA5000
EX009	1 of 1	1	08 Sep 11	Processor Board Layer 1 for GA5000
EX010	1 of 1	1	08 Sep 11	Processor Board Layer 2 for GA5000
EX011	1 of 1	1	08 Sep 11	Processor Board Layer 3 for GA5000
EX012	1 of 1	1	08 Sep 11	Processor Board Layer 4 for GA5000
EX013	1 of 1	1	08 Sep 11	Processor Board Layer 5 for GA5000
EX014	1 of 1	1	08 Sep 11	Processor Board Layer 6 for GA5000
EX015	1 of 1	1	08 Sep 11	Processor Board Layer 7 for GA5000
EX016	1 of 1	1	08 Sep 11	Processor Board Layer 8 for GA5000
EX017	1 to 10	1	08 Sep 11	Processor Board Schematic for GA5000
EX018	1 of 1	1	08 Sep 11	Sensor Board Solder Side Component Layout for GA5000
EX019	1 of 1	1	08 Sep 11	Sensor Board Component Side Component Layout for GA5000
EX020	1 of 1	1	08 Sep 11	Speaker Assembly Diagram for GA5000
EX021	1 of 1	1	08 Sep 11	Sensor Board Layer 1 for GA5000
EX022	1 of 1	1	08 Sep 11	Sensor Board Layer 2 for GA5000
EX023	1 of 1	1	08 Sep 11	Sensor Board Layer 3 for GA5000
EX024	1 of 1	1	08 Sep 11	Sensor Board Layer 4 for GA5000
EX025	1 of 1	1	08 Sep 11	Sensor Board Layer 5 for GA5000
EX026	1 of 1	1	08 Sep 11	Sensor Board Layer 6 for GA5000
EX027	1 of 1	1	08 Sep 11	Sensor Board Layer 7 for GA5000
EX028	1 of 1	1	08 Sep 11	Sensor Board Layer 8 for GA5000
EX029	1 to 2	1	08 Sep 11	Sensor Board Schematic for GA5000
EX030	1 of 1	1	08 Sep 11	Pyro Board Solder Side Component Layout for GA5000
EX031	1 of 1	1	08 Sep 11	Pyro Board Component Side Component Layout for GA5000
EX032	1 of 1	1	08 Sep 11	P.C.B. Spacing Diagram for GA5000
EX033	1 of 1	1	08 Sep 11	Pyro Board Layer 1 for GA5000
EX034	1 of 1	1	08 Sep 11	Pyro Board Layer 2 for GA5000
EX035	1 of 1	1	08 Sep 11	Pyro Board Layer 3 for GA5000
EX036	1 of 1	1	08 Sep 11	Pyro Board Layer 4 for GA5000
EX037	1 of 1	1	08 Sep 11	Pyro Board Schematic for GA5000
EX038	1 of 1	1	08 Sep 11	Temperature Probe Certification Label for GA5000
EX039	1 of 1	1	08 Sep 11	Case Material Specification for GA5000
EX040	1 of 1	1	08 Sep 11	GPS Antenna Wiring Diagram for GA5000
EX042	1 of 1	1	08 Sep 11	Un-Potted Battery Label for GA5000
EX043	1 of 1	1	08 Sep 11	Battery Pack for GA5000
EX044	1 of 1	1	08 Sep 11	Certification Label Position for GA5000
EX045	1 of 1	1	08 Sep 11	General Assembly Diagram for GA5000
EX046	1 of 1	1	08 Sep 11	Ribbon Assembly Diagram for GA5000
EX047	1 of 1	1	08 Sep 11	Temperature Probe General Assembly Diagram for GA5000
EX048	1 of 1	1	08 Sep 11	Solenoid Assembly Diagram for GA5000

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Equipment: GA5000, GEM5000 & Biogas 5000 Methane Detector
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Applicant: QED Environmental Systems Inc.

Drawing	Sheets	Rev.	Date (Stamp)	Title
EX049	1 of 1	1	08 Sep 11	Solenoid Valve
EX050	1 of 1	1	08 Sep 11	Bulb Block Assembly Diagram for GA5000
EX051	1 of 1	1	08 Sep 11	Bulb for GA5000
EX052	1 of 1	1	08 Sep 11	Oxycell Wiring Diagram for GA5000
EX053	1 of 1	1	08 Sep 11	Pump Wiring Diagram for GA5000
EX054	1 of 1	1	08 Sep 11	Display Board Solder Side Component Layout for GA5000
EX055	1 of 1	1	08 Sep 11	Display Board Component Side Component Layout for GA5000
EX056	1 of 1	1	08 Sep 11	Schematic Wiring Diagram for GA5000
EX057	1 of 1	1	08 Sep 11	Display Board Layer 1 for GA5000
EX058	1 of 1	1	08 Sep 11	Display Board Layer 2 for GA5000
EX059	1 of 1	1	08 Sep 11	Display Board Schematic for GA5000
EX060	1 of 1	1	08 Sep 11	Additional Battery Pack Information for GA5000
EX061	1 of 1	1	08 Sep 11	Display Insulator & Location for GA5000
EX062	1 of 1	1	08 Sep 11	Display Insulator for GA5000
EX063	1 of 1	1	08 Sep 11	Display Approximate Sizes for GA5000
EX064*	1 of 1	1	08 Sep 11	Bulb Board Solder Side Component Layout for GA5000
EX065*	1 of 1	1	08 Sep 11	Bulb Board Component Side Component Layout for GA5000
EX066*	1 of 1	1	08 Sep 11	Bulb Board Layer 1 for GA5000
EX067*	1 of 1	1	08 Sep 11	Bulb Board Layer 2 for GA5000
EX068*	1 of 1	1	08 Sep 11	Bulb Board Layer 3 for GA5000
EX069*	1 of 1	1	08 Sep 11	Bulb Board Layer 4 for GA5000
EX070	1 of 1	1	08 Sep 11	BOM for Windows CE (Processor) Board
EX071	1 of 1	1	08 Sep 11	BOM for Sensor Board
EX072	1 of 1	1	08 Sep 11	BOM for Pyro Board
EX073	1 of 1	1	08 Sep 11	BOM for Display Board
EX074	1 of 1	1	08 Sep 11	Power Isolation Block Diagram
EX075	1 of 1	1	08 Sep 11	Power Zones Block Diagram
EX076	1 of 1	1	08 Sep 11	GF3.9 Battery Charger

* These drawings are no longer required as the bulb PCB details have been added onto drawing EX050 at issue 2.

Issue 1

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
EX006	1 of 1	3	15 Mar 13	Processor Board Solder Side Component Layout for GA5000
EX007	1 of 1	3	15 Mar 13	Processor Board Component Side Component Layout for GA5000
EX009	1 of 1	3	15 Mar 13	Processor Board Layer 1 for GA5000
EX010	1 of 1	3	15 Mar 13	Processor Board Layer 2 for GA5000
EX011	1 of 1	3	15 Mar 13	Processor Board Layer 3 for GA5000
EX012	1 of 1	3	15 Mar 13	Processor Board Layer 4 for GA5000
EX013	1 of 1	3	15 Mar 13	Processor Board Layer 5 for GA5000
EX014	1 of 1	3	15 Mar 13	Processor Board Layer 6 for GA5000
EX015	1 of 1	3	15 Mar 13	Processor Board Layer 7 for GA5000
EX016	1 of 1	3	15 Mar 13	Processor Board Layer 8 for GA5000
EX017	1 to 10	3	15 Mar 13	Processor Board Schematic for GA5000
EX018	1 of 1	3	15 Mar 13	Sensor Board Solder Side Component Layout for GA5000
EX019	1 of 1	3	15 Mar 13	Sensor Board Component Side Component Layout for GA5000
EX021	1 of 1	3	15 Mar 13	Sensor Board Layer 1 for GA5000

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Certificate Annexe



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Equipment: GA5000, GEM5000 & Biogas 5000 Methane Detector
(also known as the GA5K range)

Applicant: QED Environmental Systems Inc.

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
EX022	1 of 1	3	15 Mar 13	Sensor Board Layer 2 for GA5000
EX023	1 of 1	3	15 Mar 13	Sensor Board Layer 3 for GA5000
EX024	1 of 1	3	15 Mar 13	Sensor Board Layer 4 for GA5000
EX025	1 of 1	3	15 Mar 13	Sensor Board Layer 5 for GA5000
EX026	1 of 1	3	15 Mar 13	Sensor Board Layer 6 for GA5000
EX027	1 of 1	3	15 Mar 13	Sensor Board Layer 7 for GA5000
EX028	1 of 1	3	15 Mar 13	Sensor Board Layer 8 for GA5000
EX029	1 to 2	3	15 Mar 13	Sensor Board Schematic for GA5000
EX042	1 of 1	2	15 Mar 13	Un-Potted Battery Label for GA5000
EX043	1 of 1	2	15 Mar 13	Battery Pack for GA5000
EX054	1 of 1	2	15 Mar 13	Display Board Solder Side Component Layout for GA5000
EX055	1 of 1	2	15 Mar 13	Display Board Component Side Component Layout for GA5000
EX057	1 of 1	2	15 Mar 13	Display Board Layer 1 for GA5000
EX058	1 of 1	2	15 Mar 13	Display Board Layer 2 for GA5000
EX059	1 of 1	2	15 Mar 13	Display Board Schematic for GA5000
EX060	1 of 1	2	15 Mar 13	Additional Battery Pack Information for GA5000
EX070	1 of 1	3	15 Mar 13	BOM for Windows CE (Processor) Board
EX071	1 of 1	3	15 Mar 13	BOM for Sensor Board
EX073	1 of 1	2	15 Mar 13	BOM for Display Board
EX074	1 of 1	3	15 Mar 13	Power Isolation Block Diagram
EX075	1 of 1	3	15 Mar 13	Power Zones Block Diagram

Issue 2

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
EX008	1 of 1	2	24 Apr 14	PID & Cell Information for GA5000
EX018	1 of 1	4	24 Apr 14	Sensor Board Solder side Component Layout for GA5000.
EX019	1 of 1	4	24 Apr 14	Sensor Board Component Side Component Layout for GA5000.
EX020	1 of 1	2	24 Apr 14	Speaker Assembly Diagram for GA5000.
EX021	1 of 1	4	24 Apr 14	Sensor board Layer 1 for GA5000.
EX022	1 of 1	4	24 Apr 14	Sensor board Layer 2 for GA5000
EX023	1 of 1	4	24 Apr 14	Sensor board Layer 3 for GA5000.
EX024	1 of 1	4	24 Apr 14	Sensor board Layer 4 for GA5000.
EX025	1 of 1	4	24 Apr 14	Sensor board Layer 5 for GA5000.
EX026	1 of 1	4	24 Apr 14	Sensor board Layer 6 for GA5000.
EX027	1 of 1	4	24 Apr 14	Sensor Board Layer 7 for GA5000.
EX028	1 of 1	4	24 Apr 14	Sensor Board Layer 8 for GA5000.
EX029	1 to 2	4	24 Apr 14	Sensor Board Schematic for GA5000.
EX040	1 of 1	2	24 Apr 14	GPS Antenna Wiring Diagram for GA5000.
EX050	1 of 1	2	24 Apr 14	Bulb Block Assembly Diagram for GA5000.
EX052	1 of 1	2	24 Apr 14	OXYCELL Wiring Diagram for GA5000.
EX062	1 of 1	2	24 Apr 14	Display Insulator for GA5000.
EX071	1 of 1	4	24 Apr 14	BOM for Sensor board
EX074	1 of 1	4	24 Apr 14	Power Isolation Block Diagram.
EX075	1 of 1	4	24 Apr 14	Power Zones Block Diagram.

Issue 3

Drawing	Sheets	Rev.	Date(Sira stamp)	Title
EX003	1 of 1	2	03 Jan 17	Geotech Rear Certification Label
EX006	1 of 1	4	09 Jun 16	Processor board Solder Side Component Layout for GA 5000

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Applicant: QED Environmental Systems Inc.

Drawing	Sheets	Rev.	Date(Sira stamp)	Title
EX008	1 of 1	3	09 Jun 16	PID & Cell Information
EX017	1 to 10	4	03 Jan 17	Processor Board Schematic for GA5000
EX029	1 to 2	5	09 Jun 16	Sensor Board Schematic for GA5000
EX039	1 of 1	2	03 Jan 17	Case material specification
EX045	1 of 1	2	09 Jun 16	General Assembly Diagram
EX046	1 of 1	2	09 Jun 16	Ribbon Assembly Diagram
EX051	1 of 1	2	03 Jan 17	Bulb for GA5000.
EX070	1 of 1	4	03 Jan 17	BOM for GA5K range Windows CE(Processor) Board
EX071	1 of 1	5	09 Jun 16	BOM for GA5K range Sensor Board
EX072	1 of 1	2	09 Jun 16	BOM for GA5K range pyro board
EX073	1 of 1	3	09 Jun 16	BOM for GA5K range display board
EX077	1 of 1	1	03 Jan 17	Distributor Rear certification label
EX060	1 of 1	3	22 Aug 17	Additional Battery Pack information
EX043	1 of 1	3	22 Aug 17	Battery pack

Issue 4

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
EX003	1 of 1	3	27-Nov-18	Geotech Rear Certification Label
Ex042	1 of 1	3	14-Nov-18	Un-Potted Battery Label for GA5000
EX038	1 of 1	2	13-Feb-19	Temperature probe certification label
Ex047	1 of 1	2	8-Oct-18	Temperature Probe General Assembly Diagram for GA5000
Ex052	1 of 1	3	2-Jan-19	OXYCELL Wiring Diagram for GA5000

The following drawing is removed by this Issue.

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
Ex077	1 of 1	1	3-Jan-17	Distributor Rear certification label

Issue 5. No new drawings were introduced.

Issue 6.

Drawing	Sheets	Rev.	Date (Sira stamp)	Title
EX071	1 of 1	6	10 Feb 21	BOM for GA5K range Sensor Board
EX078	1 of 1	1	10 Feb 21	Connector with flying lead
EX079	1 of 1	1	10 Feb 21	ATEX only rear certification label

Issue 7.

Drawing	Sheets	Rev.	Date (Stamp)	Title
EX039	1 of 1	3	29 Mar 22	Case Material specification
EX073	1 of 1	4	29 Mar 22	BOM for GA5K range display board

Issue 8.

Drawing	Sheets	Rev.	Date (Stamp)	Title
EX003-CSA	1 of 1	A	09 Jan 24	Geotech Rear Certification Label

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