



UNITED KINGDOM CONFORMITY ASSESSMENT

1 **UK TYPE EXAMINATION CERTIFICATE**

2 Equipment Intended for use in Potentially Explosive Atmospheres

UKSI 2016:1107 (as amended) – Schedule 3A, Part 1

3 Certificate Number: **CSAE 22UKEX1385** Issue: **0**

4 Product: **Sidekick 224-51TX, Sidekick 224-52TX, Sidekick 224-51MTX and Sidekick 224-52MTX Air Sampling Pumps**

5 Manufacturer: **SKC Limited**

6 Address: **11 Sunrise Park
Higher Shaftesbury Road
Blandford Forum
Dorset DT11 8ST
UK**

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

8 CSA Group Testing UK Limited, Approved Body number 0518, in accordance with Regulation 42 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Schedule 1 of the Regulations. 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 has been assured by compliance with:

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

Except in respect of those requirements listed at Section 16 of the schedule to this certificate. The above standards may not appear on the UKAS Scope of Accreditation, but have been added through flexible scope of accreditation, which is available on request.

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

11 This UK TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of this product shall be in accordance with Regulation 41 and include the following:



II 1G
Ex ia IIC T4 Ga

Name: M Halliwell
Title: Director of Operations



**UKUK
CANI**

Certificate No. CSAE 22UKEX1358
CSA Group Testing UK Ltd., Unit 6 Hawarden Industrial Park, Hawarden, CH5 3US, UK
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SCHEDULE

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13 DESCRIPTION OF PRODUCT

The air sampling pump provides a mechanism by which an amount of pollutant can be determined for a given volume of air. The equipment comprises a battery-operated motor with pump and filter attachment, a detachable encapsulated Ni-Cad battery pack (containing current-limiting components and a charging socket) and an encapsulated electronic circuit. The circuitry is mounted within a plastic enclosure. The equipment uses the pump to draw air through the filter mechanism, the pump rotation being calibrated to provide a controlled flow rate. The duration of the sample period is also monitored.

The charging socket is the only external connection, but charging is not permitted in the hazardous area.

Amendments

Amendment 1

- i. The use of GP GP200SCK, 2.0 Ah nominal, nickel cadmium (NiCd) batteries was recognised as replacements for the original, Energiser Ultramas, 1.8 Ah nominal, NiCd cells, this is a retrospective modification and applies to all NiCd Battery Packs.
- ii. The introduction of new versions of the Sidekick 224-51TX and Sidekick 224-52TX Air Sampling Pumps, these are designated the Sidekick 224-51MTX and Sidekick 224-52MTX respectively.
- iii. The nickel cadmium (NiCd) batteries used in Battery Pack Part Number P78011TX may be replaced by nickel metal-hydride (NiMH) ones. The new battery packs are designated as either Part Number P78011MTX or Part Number P78051MTX. The P78011MTX Battery Pack can be used in all versions of the Sidekick 224-51TX and Sidekick 224-52TX Air Sampling Pumps and the P78051MTX Battery Pack can be used in all versions of the Sidekick 224-51MTX and Sidekick 224-52MTX Air Sampling Pumps.
- iv. The introduction of Robnor Resin RX/HX700K in place of the original PX/HX700K.
- v. The pump assembly drawings were re-drawn.
- vi. The label drawings were rationalised in line with the above changes.

Amendment 2

- i. To permit the use of an alternative Main PCB Assembly for the Sidekick 224-52TX and Sidekick 224-52MTX Air Sampling Pumps.

Amendment 3

- i. The use of an alternative, plastic case material (Staroy NH-1000T) was recognised.

Amendment 4

- i. The use of Robnor PX804C as an alternative encapsulation material was endorsed.

Amendment 5

- i. To introduce an alternative epoxy resin, Robnor Resins PX804C-1, for the encapsulation of the battery pack and PCB assemblies.

Amendment 6

- i. Recognise label drawing with modified marking as per EN IEC 60079-0:2018.
- ii. Recognise minor drawing modifications.
- iii. Removal of warning for electrostatic hazard.

SCHEDULE

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14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Reports and Certificate History

Issue	Date	Report number	Comment
0	05 December 2022	R80125207A	The release of the prime certificate.

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

None.

16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS (REGULATIONS SCHEDULE 1)

In addition to the Essential Health and Safety Requirements covered by the standards listed in Section 9, all other requirements are demonstrated in the relevant reports.

17 PRODUCTION CONTROL

17.1 Holders of this certificate are required to comply with production control requirements defined in Schedule 3A, as applicable, and CSA Group Testing UK Regulations for Certificate Holders

17.2 Faulhaber micromotors covered by SKC drawing Sira-13, shall have the dc resistance of their winding checked before assembly into the pump stack. The dc resistance of the winding shall be in excess of 5 Ω.

17.3 The battery pack charging circuit shall not be supplied from, nor contain, a source of potential greater than 250 Vac.



Certificate Annexe

Certificate Number: CSAE 22UKEX1385
 Product: Sidekick 224-51TX, Sidekick 224-52TX, Sidekick 224-51MTX and Sidekick 224-52MTX Air Sampling Pumps
 Manufacturer: SKC Limited

Issue 0

Drawing	Sheets	Rev.	Date (Stamp)	Title
SKC-IS-0001	1 of 1	7	18 Oct 22	NiMH Battery pack assembly
SKC-IS-0009	1 of 1	2	18 Oct 22	224-52 Main PCB layout
AC50	1 to 2	3	18 Oct 22	Aircek 50 BOM Main PCB
0202P012	1 of 1	3	18 Oct 22	Aircek 50 PCB layout
Sira 5	1 of 1	6	18 Oct 22	Pump assembly Sidekick 52
Sira 6	1 of 1	6	18 Oct 22	Pump assembly Sidekick 51
SKC-IS-0005	1 of 1	4	23 Oct 20	Main PCB Assembly 224-51 Series Pumps
SKC-IS-0011	1 of 1	4	23 Oct 20	Main PCB Assembly 224-52 Series Pumps – 7952 Iss 6
Sira 2	1 of 1	6	10 Aug 09	NiCd Bat Pack Assy – Aircheck 51/52 & Sidekick Series Pumps
SKC-IS-0008	1 of 1	1	17 Mar 09	Circuit Schematic – Main PCB Assembly 224-52 Series Pumps
SKC-IS-0010	1 to 2	1	17 Mar 09	Parts List - Main PCB Assembly 224-52 Series Pumps
SKC-IS-0004	1 of 1	1	24 Nov 08	Main PCB Assembly Aircheck 52 & Sidekick 52 Series Pumps
Sira 13	1 of 1	2	03 Oct 01	Micro Motor for Aircek & Universal Pumps
0202C012	1 of 1	2	03 Jul 93	Aircek 50 Circuit Diagram
0204C037	1 of 1	Iss7 Rev 3	13 May 94	Aircek-52 Certification Circuit Diagram
AC52UKPL	1 to 2	7	10 Jun 94	Certification Parts list
SKC 7952	1 of 1	4	03 Oct 01	Aircek 52TX Certification PCB Layout
Sira 17	1 of 1	8	14 Nov 22	Labels for Sidekick ATEX & UKEX Approved pumps



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