

Certificate of Conformity

Ex EQUIPMENT

Certificate No.: **ANZEx 12.2007X**

Current Issue: 4

Date of Issue: 2024-05-22

Applicant: **SKC Limited**
11 Sunrise Park
Higher Shaftesbury Road
Blandford Forum
Dorset DT11 8ST
United Kingdom

Equipment: 210-3311AZ AirChek 3000 Air Sampling Pump


Type of Explosion Protection: Intrinsic Safety "i"

Explosion Protection Marking: Ex ia IIIC T120 °C Da
Ex ia IIC T4 Ga
Ex ia I Ma
(0 °C ≤ Ta ≤ +40 °C)

*This certificate is granted subject to the requirements as set out in
Joint Accreditation System of Australia and New Zealand Publications
ANZEx System Rules 2020 & ANZEx Certified Equipment Scheme Rules 2021*

Signed for and on behalf of issuing body

Name & Position



Ahmad Abdullah
Senior Certification and Assessment Officer

This certificate is not transferable and remains the property of the issuing body.

The status of this certificate can be confirmed through the database located at www.anzex.com.au

Certificate issued by:

Safety in Mines, Testing and Research Station
2 Robert Smith Street, REDBANK QLD 4301

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**Additional
Manufacturing
Location(s):** None

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 60079-0:2017 Ed 7.0 Explosive atmospheres Part 0: Equipment—General requirements

IEC 60079-11:2011 Ed 6.0 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

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

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Schedule

Equipment Description:

The 210-3311AZ AirChek 3000 Air Sampling Pump is a portable device designed to pump air at a constant flow rate. When used in conjunction with a suitable air sampling device and collection substrate, it is used to determine the amount of particulate and/or gaseous contaminants in a given volume of air. The equipment comprises a removable, rechargeable, encapsulated battery pack, a battery operated motor driven pump mechanism and an electronic circuit to control the rotational speed of the motor to maintain a constant air flow rate. The electronic circuit also provides a low battery shutdown function, detection of blockage of the airflow, and control and monitoring of the duration of the sampling period. This circuit also provides a serial data interface port providing connection to a computer in the safe area, for programming of the pump air flow rate and sample period duration, and retrieval of logged sample performance data. The motor, pump mechanism and electronic circuit are housed in a plastic enclosure and may use different filter covers/pump inlet arrangements to suit the application. Instruction manual for the device is 210-3311AZM.

Specific Conditions of Use:

1. Only the replaceable battery pack SKC LTD P21030AZ can be used with the device. The battery pack can only be replaced or removed in a non-hazardous area.
2. The battery pack shall only be fitted in a clean environment.
3. The battery pack shall not be charged in a hazardous area.
4. Connection to the Datatrac PC Interface can only be made in a non-hazardous area.
5. The maximum input voltage, U_m , at the the Datatrac PC Interface port of the 210-3311AZ AirChek 3000 Air Sampling Pump is 6 V. The safe area apparatus that is to be connected to the Datatrac PC Interface port shall be a Safety Extra Low Voltage (SELV) or Protective Extra Low Voltage (PELV) circuit.
6. Do not subject the equipment to intense sunlight for long periods.
7. The window associated with the Liquid Crystal Display could possibly store an electrostatic charge if rubbed. Therefore, the user shall implement precautions to prevent the build up of electrostatic charge. This is particularly important for Group IIC and zone 0 fixed installations. In accordance with the manufacturer's instruction manual, the equipment shall only be cleaned with a damp cloth.

Conditions of Certification:

None

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Additional Information:

None

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Register of Issues and Variations

includes the current issue

Issue 0 dated 2012-06-27

Standards relevant for this issue:

- IEC 60079-0:2004 Ed 4.0** Explosive atmospheres Part 0: Equipment—General requirements
- IEC 60079-11:2006 Ed 5.0** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
- IEC 60079-26:2006 Ed 2.0** Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga
- IEC 61241-11: 2005 Ed 1.0** Electrical apparatus for use in the presence of combustible dust - Part 11: Protection by intrinsic safety "iD"

Test & Assessment Reports relevant for this issue:

- TR No. & Issuing CBs: GB/SIR/ExTR11.0111/00, GB/SIR/ExTR12.0152/00; Sira
- QAR No. & Issuing CB: GB/SIR/QAR07.0024/04; Sira
- File Reference: 12/0019

Manufacturer's Documents/Drawings associated with this issue:

Document Number	Document Title	Revision	Date
SKC-IS-0060	AIRCHEK 3000 PUMP SCHEMATIC DIAGRAM	1	22/3/2011
SKC-IS-0039	BATTERY PACK PCB ASSEMBLY AIRCHEK 3000 ATEX PUMPS	2	18/10/2010
SKC-IS-0040	BATTERY PACK CIRCUIT SCHEMATIC AIRCHEK 3000 ATEX PUMP	2	18/10/2010
SKC-IS-0041	BATTERY PACK PCB LAYOUT AIRCHEK 3000 ATEX PUMP	2	18/10/2010
SKC-IS-0042	Certification List of Parts - 001-01-020 Battery Pack PCB Assembly for AirChek 3000 ATEX Pump	2	18/10/2010
SKC-IS-0043	INTERFACE PCB ASSEMBLY FOR AIRCHEK 3000 ATEX PUMP	3	26/4/2011
SKC-IS-0044	INTERFACE PCB CIRCUIT SCHEMATIC AIRCHEK 3000 ATEX PUMP	1	27/10/2009
SKC-IS-0045	INTERFACE PCB LAYOUT AIRCHEK 3000 ATEX PUMP	3	26/4/2011
SKC-IS-0046	Certification List of Parts - 001-01-021 Interface PCB Assembly for AirChek 3000 ATEX Pump	2	21/4/2011

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Document Number	Document Title	Revision	Date
SKC-IS-0047	KEYPAD PCB ASSEMBLY AIRCHEK 3000 ATEX PUMP	1	27/10/2009
SKC-IS-0048	KEYPAD PCB CIRCUIT SCHEMATIC AIRCHEK 3000 ATEX PUMP	1	28/10/2009
SKC-IS-0049	KEYPAD PCB LAYOUT AIRCHEK 3000 ATEX PUMP	2	18/10/2010
SKC-IS-0050	Certification List of Parts - 001-01-031 Keypad PCB Assembly for AirChek 3000 ATEX Pump	1	27/10/2009
SKC-IS-0051	MAIN PCB ASSEMBLY AIRCHEK 3000 ATEX PUMP	1	21/4/2011
SKC-IS-0052 (2 sheets)	MAIN PCB CIRCUIT SCHEMATIC AIRCHEK 3000 ATEX PUMP	2	23/3/2011
SKC-IS-0053	MAIN PCB LAYOUT AIRCHEK 3000 ATEX PUMP	2	18/10/2010
SKC-IS-0054	PUMP RUN LED PCB LAYOUT AIRCHEK 3000 ATEX PUMP	2	18/10/2010
SKC-IS-0055 (3 sheets)	Certification List of Parts - Main PCB Assembly for AirChek 3000 ATEX Pump (79570 Issue 5)	2	01/05/2012
SKC-IS-0056	PUMP MOTOR SPECIFICATION AIRCHEK 3000 ATEX PUMP	2	23/3/2011
SKC-IS-0057	BATTERY PACK ASSEMBLY AIRCHEK 3000 PUMP	1	22/3/2011
SKC-IS-0058 (2sheets)	210-3311 AIRCHEK 3000 PUMP ASSEMBLY	2	21/4/2011
SKC-IS-0061	AIRCHEK 3000 PUMP MAIN PCB PRESSURE SENSORS PS1 & PS2	1	22/3/2011
SKC-IS-0062	LABELS FOR 210-3311AZ AIRCHEK 3000 PUMP	1	19/6/2012

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Current Issue: 4

Date of Issue: 2024-05-22

Issue 1 dated 2013-08-26

Variations Permitted by this Issue

- Change of a safety resistor value.
- Inclusion of a non-safety resistor in series with the pump.

Test & Assessment Reports relevant for this issue:

TR No. & Issuing CBs: GB/SIR/ExTR13.0155/00; Sira
 QAR No. & Issuing CB: GB/SIR/QAR07.0024/05; Sira
 File Reference: 13/0121

Manufacturer's Documents/Drawings associated with this issue:

Document Number	Document Title	Revision	Date
SKC-IS-0055 (3 sheets)	Certification List of Parts - Main PCB Assembly for AirChek 3000 ATEX Pump (79570 Issue 5)	3	05/11/2012
SKC-IS-0056	PUMP MOTOR SPECIFICATION AIRCHEK 3000 ATEX PUMP	4	17/05/2013

Issue 2 dated 2014-08-08

Variations Permitted by this Issue

- Alternative over-moulding material

Test & Assessment Reports relevant for this issue:

TR No. & Issuing CBs: GB/SIR/ExTR14.0153/00; Sira
 QAR No. & Issuing CB: GB/SIR/QAR07.0024/05; Sira
 File Reference: 14/0117

Manufacturer's Documents/Drawings associated with this issue:

Document Number	Document Title	Revision	Date
SKC-IS-0057	BATTERY PACK ASSEMBLY AIRCHEK 3000 PUMP	2	10/02/2014
SKC-IS-0058 (Sheets 1 and 2 of 2)	210-3311 AIRCHEK 3000 PUMP ASSEMBLY	3	10/02/2014

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Issue 3 dated 2021-08-03Variations Permitted by this Issue

- Variation to Introduce an alternative epoxy resin for the encapsulation of the battery pack.

Test & Assessment Reports relevant for this issue:

TR No. & Issuing CBs: GB/SIR/ExTR20.0195/00; Sira

QAR No. & Issuing CB: GB/SIR/QAR07.0024/10; Sira

File Reference: 210005 Cert

Manufacturer's Documents/Drawings associated with this issue:

Document Number	Document Title	Revision	Date
SKC-IS-0057	BATTERY PACK ASSEMBLY AIRCHEK 3000 PUMP	3	30/07/2020

Issue 4 dated 2024-05-22Variations Permitted by this Issue

- Up-issue of standards from IEC 60079-0:2004 to IEC 60079-0:2017.
- Up-issue of standards from IEC 60079-11:2006 to IEC 60079-11:2011.
- Removal of standards IEC 60079-26 and IEC 61241-11 from the certification.
- Minor drawing changes.

Standards relevant for this issue:**IEC 60079-0:2017 Ed 7.0** Explosive atmospheres Part 0: Equipment—General requirements**IEC 60079-11:2011 Ed 6.0** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"Test & Assessment Reports relevant for this issue:

TR No. & Issuing CBs: GB/SIR/ExTR22.0067/00; Sira

QAR No. & Issuing CB: GB/SIR/QAR07.0024/12; Sira

File Reference: 120020Audit

Manufacturer's Documents/Drawings associated with this issue:

Document Number	Document Title	Revision	Date
SKC-IS-0042	Certification List of Parts - 001-01-020 Battery Pack PCB Assembly for AirChek 3000 ATEX Pump	3	10/05/2021
SKC-IS-0046	Certification List of Parts - 001-01-021 Interface PCB Assembly for AirChek 3000 ATEX Pump	3	21/05/2021

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Document Number	Document Title	Revision	Date
SKC-IS-0055 (2 sheets)	Certification List of Parts - Main PCB Assembly for AirChek	5	14/06/2022
210-3311AZM (60 pages)	3000 ATEX Pump (79570 Issue 5) AirChek 3000 Air Sampling Pump Operating Instructions	M	March 2024