ANALYT MESSTECHNIK



TECHNICAL NOTE

SKC AirChek Connect Sample Pump

Certification markings, intrinsic-safety warnings, battery cautions and battery pack replacement for the SKC AirChek Connect sample pump, model 220-4000.

AMTC-TN-0004

About this note

This note collects the installation and operation cautions for the SKC AirChek Connect sample pump, model 220-4000: what the certification markings on the pump mean for where you may use it, the warnings that keep it intrinsically safe, the limits for its battery pack, and how to replace the battery pack. Read it before you charge or use the pump for the first time, and keep it with the pump.

Read Safety cautions (p. 4) first. Replacing the battery pack (p. 6) gives the procedure, and Ordering information (p. 7) lists the approved parts. Charging, setting up and running the pump are described in the operating manual of the pump.

How this note marks information

⚠ WARNING

A hazardous situation which, if not avoided, could result in death or serious injury.

Document information

Title	SKC AirChek Connect Sample Pump — Technical note
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Revision history

Rev.	Date	Change
2	October 2026	Quality programme: new document type, number and identity pages.
1	October 2026	First issue.

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Contents

1 **Safety cautions** **4**

Certification markings 4

Hazardous areas 4

Battery pack 5

2 **Replacing the battery pack** **6**

Remove the battery pack 6

Fit the battery pack 6

3 **Ordering information** **7**

Service and parts 7

4 **Contacts** **8**

CHAPTER 1

Safety cautions

The SKC AirChek Connect, model 220-4000, is an intrinsically safe sample pump. It stays intrinsically safe only with an approved battery pack and with no parts substituted. Disregarding the warnings, cautions and notes in this document can cause injury and voids the warranty.

Certification markings

The rating label on the pump carries these markings. Use the pump only where they allow it, and within the ambient temperature range.

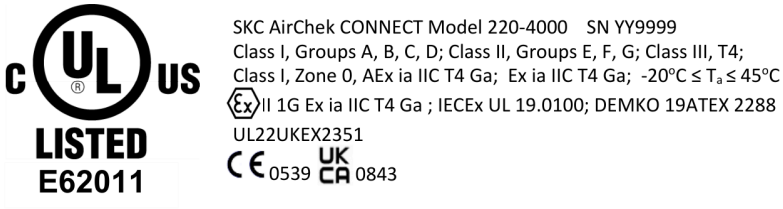


Figure 1-1. Markings block of the rating label, as printed on the pump.

Table 1-1. Markings of model 220-4000

Scheme	Marking
North America, cULus listed, file E62011	Class I, Groups A, B, C, D; Class II, Groups E, F, G; Class III; T4 Class I, Zone 0, AEx ia IIC T4 Ga Ex ia IIC T4 Ga
ATEX, IECEx	II 1G Ex ia IIC T4 Ga Certificates DEMKO 19ATEX 2288 and IECEx UL 19.0100
UKEX	Certificate UL22UKEX2351
CE, UKCA	CE 0539; UKCA 0843
Ambient temperature	−20 °C ≤ T_a ≤ 45 °C

Hazardous areas

⚠ WARNING

Charging the pump, or taking off or fitting its battery pack, where the atmosphere may be explosive can ignite that atmosphere. This can cause an explosion. Charge the pump and change its battery pack only outside hazardous areas.

⚠ WARNING

The charging cradles are not covered by the intrinsic-safety certification of the pump. A cradle in a hazardous area can ignite an explosive atmosphere. Charge the pump only in an SKC charging cradle 220-900, 220-800 or 220-850, and keep the cradles out of hazardous areas. The maximum charge input voltage is U_m = 12 V; this is an intrinsic-safety parameter, not an operating value.

⚠ WARNING

Replacing any part of the pump with one that is not approved can impair its intrinsic safety. In a hazardous location, the pump can then ignite an explosive atmosphere. Replace parts only with approved parts.

Battery pack

⚠ WARNING

The battery in the pump can catch fire or explode if it is heated above 100 °C (212 °F) or burned. Replace it only with an SKC Unlisted Component Battery Pack, model P75718 or P75718A; any other battery carries the same risk. Never heat the battery above 100 °C (212 °F) or put it in a fire.

⚠ WARNING

Battery charging limits. The battery packs were evaluated for a maximum charging voltage of 8.4 V DC and a maximum charging current of 1 A. Charging outside these limits can cause a fire or an explosion. Do not exceed either value.

CHAPTER 2

Replacing the battery pack

Two screws hold the battery pack to the bottom of the pump case. Have a 2.5 mm hex key ready.

WARNING

Changing the battery pack in a hazardous area can ignite an explosive atmosphere. This can cause an explosion. Change the battery pack only outside hazardous areas, and fit only an approved pack, P75718 or P75718A. Read the Safety cautions (p. 4) first.

Remove the battery pack

1. Switch the pump off with the on/off button.
2. With the 2.5 mm hex key, loosen the two screws on the bottom of the battery pack.
3. Pull the battery pack away from the pump case.

Fit the battery pack

1. Line up the battery pack with the bottom of the pump case and press the two parts together until they sit snug.
2. Tighten the two battery screws.

CHAPTER 3

Ordering information

Order from Analyt-MTC with the order codes.

Service and parts

Contact Analyt-MTC for battery packs, charging cradles, service, repair and technical support for your SKC AirChek Connect pump; warranty matters follow Analyt-MTC's terms of sale. Have the model and serial number of the pump ready. Analyt-MTC's contact details are in Contacts (p. 8) and on the back cover.

Table 3-1. Approved power parts

Part	Order code
Battery pack, Li-ion	P75718 or P75718A
Charging cradle	220-900, 220-800 or 220-850

For any other version, contact Analyt-MTC.

CHAPTER 4

Contacts

Contact and support

ANALYT-MTC Messtechnik GmbH

German Headquarters

Klosterrunsstraße 18, 79379 Müllheim
Germany

+49 7631 5545

info@analyt-mtc.de

French Subsidiary

175 Avenue d'Alsace, 68000 Colmar
France

+33 3 89 41 47 78

info@analyt-mtc.fr

www.analyt-mtc.com

Before you call

Have the following at hand so Analyt-MTC can help you quickly:

- the model and the serial number on the rating label of the pump;
- the battery pack model;
- the charging cradle you use, and what you were doing when the problem occurred.

ANALYT-MTC Messtechnik GmbH

Sales, service and calibration

German Headquarters
Klosterrunsstraße 18, 79379 Müllheim
Germany
+49 7631 5545
info@analyt-mtc.de

French Subsidiary
175 Avenue d'Alsace, 68000 Colmar
France
+33 3 89 41 47 78
info@analyt-mtc.fr

www.analyt-mtc.com

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