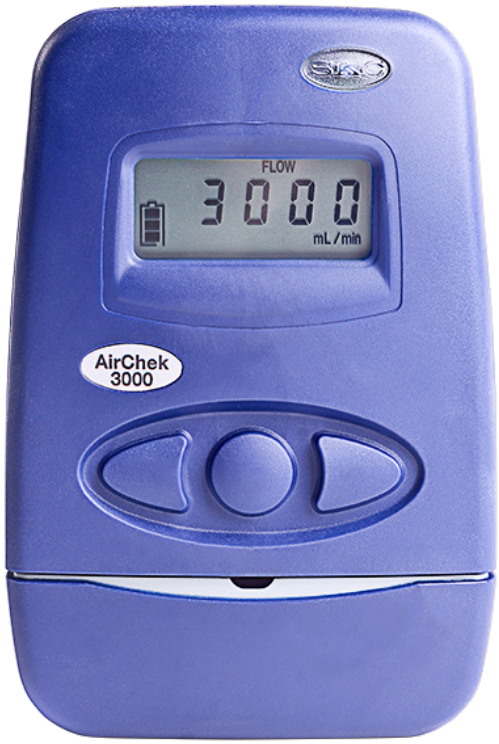
ANALYT MESSTECHNIK



OPERATING MANUAL

SKC AirChek 3000 Sample Pump

Intrinsic safety, charging, flow rate setting with or without CalChek, programmed and low flow sampling with the ATEX, IECEx and UKEX certified AirChek 3000 pump, 5 to 3250 mL/min, with maintenance, troubleshooting and ordering information.

AMTC-MN-0035

Rev. 2 · October 2026

About this manual

The SKC AirChek 3000 is a personal air sampling pump for 1000 to 3250 mL/min, and for 5 to 500 mL/min with a low flow adapter, certified intrinsically safe under ATEX, IECEx and UKEX. This manual takes you from charging the battery to a finished sample — setting the flow rate by hand or with CalChek, programming run times and delayed starts, sampling at high and low flow — and covers maintenance, troubleshooting, technical data and order numbers.

Read Safety (p. 6) before you use the pump for the first time: the certification holds only under the conditions set out there. To start sampling quickly, follow Commissioning (p. 13), Setting the flow rate (p. 17) and Sampling (p. 19).

The manual applies to the AirChek 3000 pump, Cat. No. 210-3311, supplied with a NiMH battery pack and a toolkit. Analyt-MTC supplies, services and supports the pump (see Service, warranty and contacts (p. 36)), and supplies the SKC Step-by-Step Guide to Air Sampling (Cat. No. 224-G1) on sampling methods.

Keep this manual for the lifetime of the product. The current revision is on the product page at analyt-mtc.com.

Conventions in this manual:

- Keys, buttons and menu entries are printed like this: **ESC**.
- A menu path such as **View** › **Calibration Info** means that you open each entry in turn.

Abbreviations

Abbreviation	Meaning
A/F	Across flats (size of a spanner or hex key)
EPL	Equipment protection level
NiMH	Nickel-metal hydride (rechargeable cell)

How this manual marks information

WARNING

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

NOTICE

Practices not related to personal injury — damage to the product, the process or the sample.

Note

Information that helps understanding; never a hazard.

Buttons and display texts

	**Scroll** — round centre button
	**Increase** — left button
	**Decrease** — right button
	Both arrows — press Increase and Decrease together
	**Security code** — Scroll, Increase, Decrease, Scroll in turn

Texts on the liquid crystal display (LCD) are printed as they appear there: **End**, **CAL**, **ESC**. See also The keypad (p. 10).

Document information

Title	SKC AirChek 3000 Sample Pump — Operating manual
Document number	AMTC-MN-0035
Revision	Rev. 2 — October 2026
Applies to	AirChek 3000 air sampling pump, Cat. No. 210-3311
Language	English
Manufacturer	SKC Inc.

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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CHAPTER 1

Safety

Read this chapter before you use the pump for the first time. The AirChek 3000 is intrinsically safe as long as it is undamaged, runs on its own NiMH battery pack and contains only approved parts. The rules in this chapter keep it that way, and protect the pump and your samples.

Use in hazardous locations

The pump is certified for potentially explosive atmospheres under the EU ATEX Directive 2014/34/EU, the international IECEx scheme and the UK regulations (UKEX). The markings, certificates and permitted zones are listed under Certification (p. 31).



WARNING

A pump whose rating does not meet the requirements of a hazardous location can ignite an explosive atmosphere there. This can cause an explosion. Before the pump enters a hazardous location, have your site manager or the person responsible for the site confirm that its rating meets the site's requirements. Neither the manufacturer nor Analyt-MTC can decide which rating your site needs.

WARNING

In a hazardous location, the pump can ignite an explosive atmosphere if its battery pack is charged, removed or fitted, if anything is connected to its PC interface port, if its LCD window holds an electrostatic charge, or if its enclosure is damaged. This can cause an explosion.

- In a hazardous location: never charge, remove or fit the battery pack.
- Fit the battery pack to the pump only outside the hazardous location, in a clean, dust-free area.
- In a hazardous location: never connect anything to the DataTrac PC interface port. Outside the hazardous location, connect the port only to a Safety Extra Low Voltage (SELV) or Protective Extra Low Voltage (PELV) circuit, such as the USB or RS232 port of a PC; the maximum input voltage U_m at the port is 6 V.
- Use the pump only at ambient temperatures from 0 to 40 °C.
- Do not leave the pump in intense sunlight for long periods.
- Do not rub the recessed LCD window: it can hold an electrostatic charge, which matters most in zone 0. Clean it only with a damp cloth.
- Do not use a damaged pump. Cracks in the pump or battery-pack enclosure, or in the potting inside, that expose internal components can invalidate the intrinsic safety and the IP rating. Checking that the pump is fit for a hazardous location is the user's responsibility.
- In a hazardous location: do not use the battery eliminator (see Mains operation (p. 7)).

Note

The pump has not been assessed as a safety-related device in the sense of Directive 2014/34/EU, Annex II, clause 1.5, and the UK Regulations 2016 No. 1107, Schedule 1, clause 22.

Approved battery, chargers and parts

Power the pump only from its own NiMH battery pack (P21030), and charge it only with the chargers designated for the AirChek 3000: the single charger 223-260A or the five-station charger 223-119A. Replace parts only with the original parts listed in Ordering information (p. 32).

⚠ WARNING

Components that are not approved by the manufacturer may invalidate the pump's intrinsic-safety certification. In a hazardous location, the pump can then ignite an explosive atmosphere. Use only the approved battery pack and chargers, and replace parts only with the original parts listed in Spare parts and accessories.

NOTICE

A charger that is not approved for this battery pack can impair the battery's performance or damage it beyond repair, and it voids the battery-pack warranty. Charge the battery pack only with the single charger 223-260A or the five-station charger 223-119A.

Mains operation (battery eliminator)

For long samples in safe areas the pump can run from the mains through a battery eliminator (223-330B with EU 2-pin plug, 223-330C with UK 3-pin plug). It consists of a mains adapter and a dummy battery pack that takes the place of the normal battery pack.

⚠ WARNING

With the battery eliminator fitted, the ATEX, IECEx and UKEX certifications do not apply. The pump can then ignite an explosive atmosphere. Never take a pump fitted with a battery eliminator into a hazardous location.

Pump variants

The AirChek 3000 is also made in a variant certified under the ANZEx scheme for Australia and New Zealand. ANZEx pumps are not approved for hazardous locations in the EU, where ATEX certification is mandatory, or in the UK, where UKEX certification is mandatory. This manual covers the ATEX, IECEx and UKEX certified pump, 210-3311.

⚠ WARNING

The ANZEx pump and the ATEX, IECEx and UKEX certified pump use different components. A part from the other variant may invalidate the pump's intrinsic-safety certification. In a hazardous location, the pump can then ignite an explosive atmosphere. Never exchange parts between an ANZEx pump and an ATEX, IECEx and UKEX certified pump. If in doubt, contact Analyt-MTC.

Protecting the pump

NOTICE

Water, a wrong connection, aggressive fumes, impinger liquid and solvents can damage the pump.

- **Water.** The case is rated IP64: dust-tight and protected against splashing water. The pump may be used in rain or spray if no water can enter the air inlet. Do not expose it to water jets and never immerse it.
- **Charging socket.** The battery-pack charging socket has a mini-USB shape but is not a USB port. Never connect it to the USB port of a computer: this can damage the battery pack, the computer or both.
- **Sample media.** Do not run the pump for long periods without a sorbent tube or filter in line.
- **Long-term colour-change tubes.** Always use a tandem tube holder with a trap tube, so that the aggressive fumes these tubes give off cannot reach the pump mechanism.
- **Impingers.** Always fit a trap between the impinger and the pump inlet, so that impinger liquid cannot reach the pump mechanism. Set the flow below 1 L/min before you connect the trap and the impinger.
- **Cleaning.** Clean the case with warm soapy water. Keep solvents such as acetone, xylene and benzene away from the pump, in use and during maintenance.

Ignoring these precautions can damage the pump and voids the warranty.

CHAPTER 2

Product description

Parts of the pump

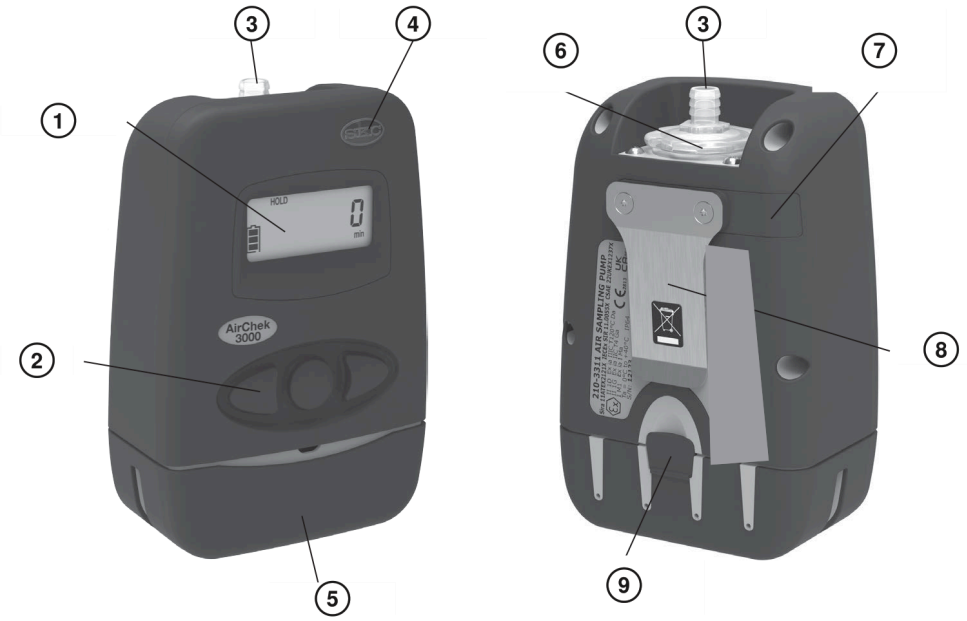


Figure 1. Front (left) and back (right).
1 LCD screen · **2** Keypad · **3** Air inlet port · **4** Pump run LED · **5** Battery pack · **6** Inlet particulate filter · **7** DataTrac PC interface port cover · **8** Belt clip · **9** Charging socket cover

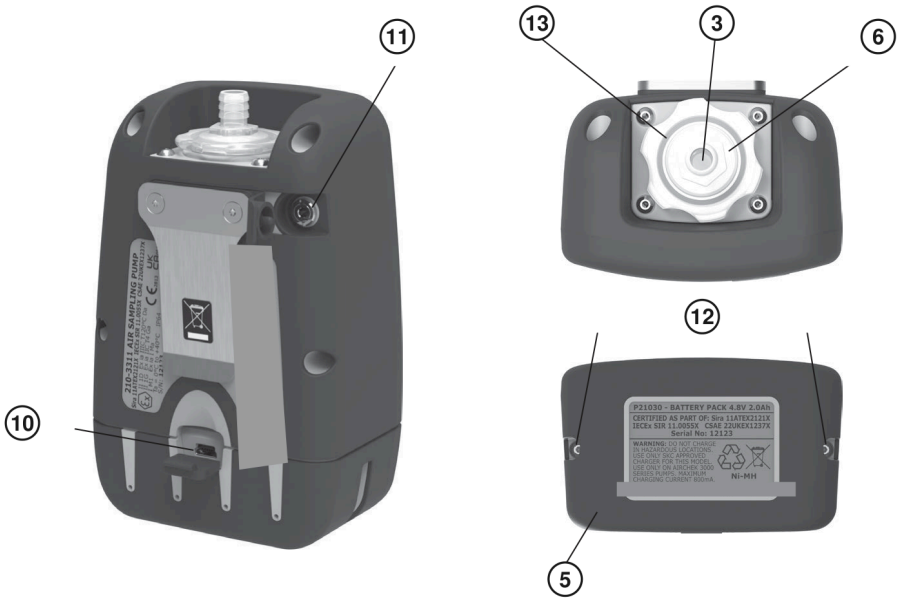


Figure 2. Back with covers open (left), air inlet from above (top right) and battery pack from below (bottom right).
3 Air inlet port · **5** Battery pack · **6** Inlet particulate filter · **10** Charging socket · **11** DataTrac PC interface port · **12** Battery pack security screws (2) · **13** O-ring

Supplied items and accessories

The pump is supplied with a NiMH battery pack and a toolkit. Chargers, the CalChek accessories, the low flow accessories and the DataTrac software are listed in Ordering information (p. 32).

The LCD screen

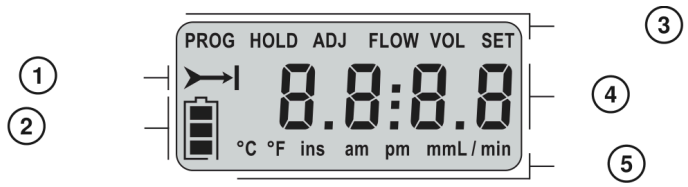


Figure 3. LCD screen, all segments lit.
1 Flow fault indicator · **2** Battery charge status · **3** Operating indicators · **4** Numerals · **5** Display units

Indicator	Meaning
PROG	On: a sample program is loaded in the pump's memory.
HOLD	Flashes: the pump is in HOLD mode.
ADJ	Flashes: the flow rate is being adjusted during flow calibration.
FLOW	On: the screen shows the flow rate.
VOL	On: the screen shows the sampled air volume.
SET	Flashes: you are setting the flow rate, display units, clock time or delayed start time.

Unit	Meaning
°C, °F	Sample air temperature
ins, mm, m	Atmospheric pressure in inHg, mmHg or mbar
mL/min	Flow rate in mL/min
mL, L	Air volume sampled since the last reset
min	Run time in minutes since the last reset
am, pm	Time of day (12- or 24-hour clock)

The keypad

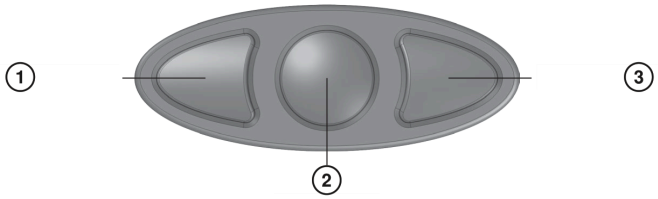


Figure 4. Keypad. **1** Increase · **2** Scroll · **3** Decrease

Button	What it does
Scroll	In RUN and HOLD mode: steps through the run-time data. In the user interface: steps through the settings and options.
Increase	In the user interface: switches between options and increases values.
Decrease	In the user interface: switches between options and decreases values.
Both arrows	Press both together to switch between HOLD and RUN mode. In the user interface: selects or confirms the item shown.
	Security code: within 10 seconds of switching mode (HOLD to RUN, or RUN to HOLD), press Scroll, Increase, Decrease, Scroll to open the user interface. After 10 seconds the pump simply stays in its new mode.

Any of the three buttons wakes the pump from SLEEP mode.

Operating modes

Mode	What the pump does
RUN	The pump runs and updates its run-time data continuously. The blue pump run LED (4 in Figure 1 (p. 9)) flashes. Run time and volume keep adding up until you reset them (see Resetting the run-time data (p. 17)).
HOLD	The pump is stopped and keeps its run-time data. Temperature, atmospheric pressure and clock stay live; Scroll shows them together with the accumulated run time and volume.
SLEEP	After more than 5 minutes in HOLD the pump switches off its LCD to save power. Press any button, or connect the charger, to wake it: the LCD shows the last four digits of the serial number, then the internal software version, and the pump returns to HOLD.

Press ◁▷ to switch from HOLD to RUN, and again to switch from RUN to HOLD. You can pause a sample this way and restart it without losing the run-time data.

Battery status

Symbol	Charge remaining
	Three bars: full, approx. 75–100 %. Start every sample with a fully charged battery.
	Two bars: approx. 25–75 %.
	One bar: below approx. 25 %.
	No bars, outline flashing: low battery. The pump switches to HOLD and, within 10 seconds, to SLEEP. It keeps the run-time data; the cut-off voltage protects the battery from deep discharge.

Note
A pump that stopped on low battery and has stood for a while may show one bar again. This charge runs down quickly once the pump runs. Recharge the battery before you sample.

Flow fault

If the airflow is blocked or restricted, the flow fault indicator ➙| flashes. When the fault lasts 15 seconds, the pump stops and switches to HOLD, and the indicator stays on. After 5 minutes the pump restarts by itself and carries on sampling. If the flow is still restricted it returns to HOLD and tries again every 5 minutes, up to 10 restarts. The number of restarts can be changed with the DataTrac software (see DataTrac software (p. 22)).

While the pump is in flow fault, the accumulated run time and volume are kept but not updated. Causes and remedies are listed in Troubleshooting (p. 28).

The user interface

The settings are in two levels, each protected by the security code.

Level	How to open it	What it contains
Level One (from RUN)	With the pump in HOLD, press [◁ ▷] to start it, then within 10 seconds ○ ◁ ▷ ○.	Flow rate setting and adjustment; CalChek single-point adjustment — see Chapter 4 (p. 17); CalChek full calibration — see Calibration and verification (p. 24).
Level Two (from HOLD)	With the pump in RUN, press [◁ ▷] to stop it, then within 10 seconds ○ ◁ ▷ ○.	Display units, sample run time, 12/24-hour clock, delayed start, clock time, resetting the run-time data — see Chapter 4 (p. 14).

- Press ○ to step from one setting screen to the next.
- To leave and **save** your changes, press ○ until **End** appears, then [◁ ▷]. The pump stays in its current mode (HOLD or RUN).
- In Level Two you can also leave **without saving**: press ○ until **ESC** appears, then [◁ ▷].

Run-time data screens

In HOLD or RUN mode, press ○ to step through these screens:

	Elapsed run time since the last reset, in minutes. Counts up to 9999 min (about one week), then starts again at 0.
	Flow rate in mL/min.
	Air volume sampled since the last reset, in mL or L. Counts up to 9999 L, then starts again at 0.
	Sample air temperature in °C or °F, live.
	Clock time, 12- or 24-hour format, with AM and PM indicators.
	Atmospheric pressure in mbar, mmHg or inHg, live.

Note

The flow rate on the screen is the flow the pump was set and calibrated to; it does not change during the sample. If temperature or atmospheric pressure differ from those during calibration, the pump corrects its operation to keep that flow. If it cannot hold the flow within ±5 %, it goes into flow fault.

The volume shown is corrected: the pump calculates it continuously from the corrected flow rate and the sampling time.

CHAPTER 3

Commissioning

The pump runs on a rechargeable NiMH battery pack, 4.8 V, 2.0 Ah. A full charge takes 16 hours. Charge a new pump fully before its first use — overnight is ideal. A new battery pack reaches its full capacity only after 2 to 3 charge and discharge cycles.

⚠ WARNING

Charging the battery pack in a hazardous location can ignite an explosive atmosphere. This can cause an explosion. Never charge the battery pack in a hazardous location.

Chargers

Charge the pump only with a charger designated for the AirChek 3000:

Charger	Order code
Single charger, 100–240 V AC, 50/60 Hz	223-260A
Five-station charger, 100–240 V AC, 50/60 Hz	223-119A

Both chargers come with interchangeable mains plugs for the UK, Europe, the USA and Australia/New Zealand. Fit the plug for your country as described in the instructions supplied with the charger.
Charge at ambient temperatures between 0 and 45 °C.

NOTICE

The charging socket looks like a mini-USB socket, but it is not a USB port. Connecting it to a computer can damage the battery pack, the computer or both. Never connect the charging socket to a computer.

Charging

1. Flick open the charging socket cover at the back of the pump (9 in Figure 1 (p. 9)) with a fingernail or with the large blade of the screwdriver in the toolkit.
2. Plug the charger's output plug into the charging socket behind the cover.
3. Plug the charger into the mains and switch on. The charger's LED lights: the battery pack is connected and charging. The pump wakes from SLEEP mode when the charger is connected. The charging sequence is described in the instructions supplied with your charger.
4. When the battery is fully charged, unplug the charger from the pump and close the charging socket cover. Do not leave the battery pack on the charger for more than 24 hours.
5. To check the charge, press any button to wake the pump and read the battery symbol (see Battery status (p. 11)).

For the care of the battery over its life — monthly cycling, storage, testing and replacement — see Battery care (p. 27).

CHAPTER 4

Operation

Operation runs from the settings to the finished sample: make the settings in user interface Level Two, including a programmed run time or a delayed start; set the flow rate with the sampling train in line; take the sample; and program and read out the pump with the optional DataTrac software.

Display units, the clock, a programmed run time and a delayed start are set in user interface Level Two. Every procedure starts the same way, and ends by saving or discarding your changes.

Note

To open Level Two: with the pump in RUN, press [◁ ▷] to stop it, then within 10 seconds press ○ ◁ ▷ ○ (see The user interface (p. 12)).

To save and leave: press ○ until **End** appears, then [◁ ▷]. **To leave without saving:** press ○ until **ESC** appears, then [◁ ▷]. Either way the pump returns to HOLD.

Display units

1. Open user interface Level Two.
2. Press ○ until the temperature unit screen appears: **SET** and the current unit flash, and the screen shows the current air temperature.
3. Press ◁ or ▷ to switch between °F and °C.
4. Press ○ until the pressure unit screen appears: **SET** and the current unit flash, and the screen shows the current atmospheric pressure.
5. Press ◁ or ▷ to choose **ins** (inHg), **m** (millibar) or **mm** (mmHg).
6. Save and leave at **End**, or discard at **ESC**.



Display units: temperature in °F and °C, atmospheric pressure in inHg and mbar, then End and ESC.

Clock time

1. Open user interface Level Two.
2. Press ○ until the 12/24-hour clock screen appears.
3. Press ◁ or ▷ to choose the 12-hour or the 24-hour clock.
4. Press ○ until the clock screen appears, with **SET** and the hours flashing.
5. Set the hours with ◁ or ▷.
6. Press ○ once; the minutes flash.

7. Set the minutes with ◁ or ▷.
8. Save and leave at **End**, or discard at **ESC**.

The 12/24-hour clock screen also leads to the delayed start; see Delayed start (p. 16).



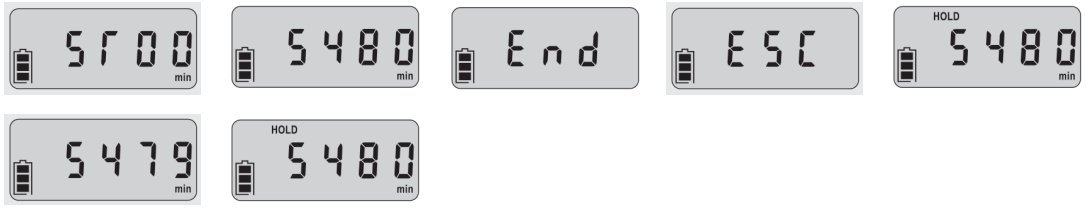
Clock time: 24 or 12 hour clock, the hours and the minutes, then End and ESC.

Programmed run time

With a programmed run time the pump stops by itself at the end of the sample. The run time can be 1 to 999 minutes.

1. Open user interface Level Two.
2. Press ○ until the run time screen appears, with the current run time in minutes flashing.
3. Set the run time with ◁ or ▷ — for example 480 minutes for 8 hours.
4. Save and leave at **End**, or discard at **ESC**. After saving, the elapsed run time screen shows a flashing **S** and the programmed run time.
5. Press [◁▷] to start sampling. The run time counts down in steps of one minute.
6. At the end of the run time the pump switches to HOLD by itself, and the screen shows the programmed run time again.

- After you delete a programmed run time, the elapsed run time screen again shows the total run time since the run-time data was last reset.
- A run time set on the pump and a program loaded from the DataTrac software exclude each other. Delete the one before you enter the other (see Deleting a run time (p. 15) and Deleting a delayed start or DataTrac program (p. 16)).
- A DataTrac program can run for up to 43 200 minutes (30 days). While it is loaded, the screen shows **PROG** and the elapsed run time counts up instead of down.



Programmed run time: the setting screen, a run time of 480 minutes, End and ESC, then HOLD and RUN counting down.

Deleting a run time

1. Open user interface Level Two.
2. Press ○ until the run time screen appears, with the current run time flashing.
3. Bring the run time to zero with ◁ or ▷.

4. Press ◯ until **End** appears, then [◁ ▷] to save. The pump returns to HOLD.



Deleting a run time: the programmed run time, the setting screen, End.

Delayed start

With a delayed start, the pump switches from HOLD to RUN by itself at a set time and samples for the programmed run time. The start time is a 12-hour clock time without AM or PM: the pump starts at the next time the clock reaches it, morning or afternoon. A delayed start always needs a programmed run time.

1. Open user interface Level Two.
2. Set a run time as described in Programmed run time (p. 15), steps 2 and 3.
3. Press ◯ until the 12/24-hour clock screen appears.
4. Press ◁ or ▷ until **dELA** flashes.
5. Press ◯ once. The delayed start screen appears with **SET** and the hours flashing.
6. Set the hours with ◁ or ▷.
7. Press ◯ once; the minutes flash.
8. Set the minutes with ◁ or ▷.
9. Save the run time and start time at **End**, or discard at **ESC**. After saving, the run-time data screens show **PROG**.
10. If the elapsed run time is not zero, reset the run-time data (see Resetting the run-time data (p. 17)).
11. At the start time the pump switches to RUN and samples; the elapsed run time screen counts the run time. At the end of the run time the pump switches to HOLD, and **PROG** disappears.

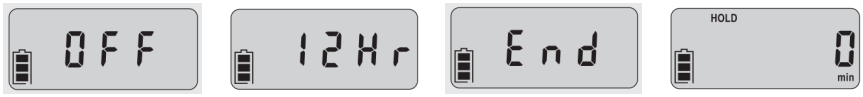


Delayed start: clock format, dELA, the start time, End and ESC, then PROG and HOLD while the pump waits to start.

Deleting a delayed start or DataTrac program

The same procedure deletes a delayed start set on the pump and a sampling program loaded with the DataTrac software.

1. Open user interface Level Two.
2. Press ◯ until **`Off`** flashes. This screen appears only if a delayed start or a DataTrac program is stored.
3. Press [◁ ▷] to delete it. The 12/24-hour clock screen appears.
4. Press ◯ until **End** appears, then [◁ ▷] to save. The pump returns to HOLD, and **PROG** no longer appears on the run-time data screens.

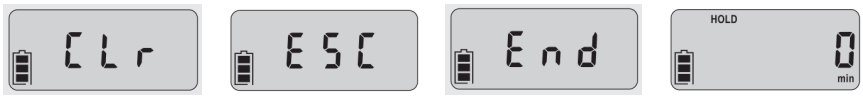


Deleting a delayed start or DataTrac program: OFF, the clock format, End, HOLD.

Resetting the run-time data

Resetting sets the accumulated air volume and run time to zero. Resetting before a new sample is recommended.

1. Open user interface Level Two.
2. Press ○ until **CLr** flashes.
3. Press [◁▷] to reset. **ESC** appears.
4. Press ○ until **End** appears, then [◁▷]. The pump returns to HOLD.



Resetting the run-time data: CLr, ESC, End, then HOLD with the run time at 0.

Setting the flow rate

The sample volume is flow rate times time, so the result is only as good as the flow rate. Set the flow with the complete sampling train in line, because the sampling medium's resistance changes the flow the pump delivers. All three procedures in the table below are in user interface Level One.

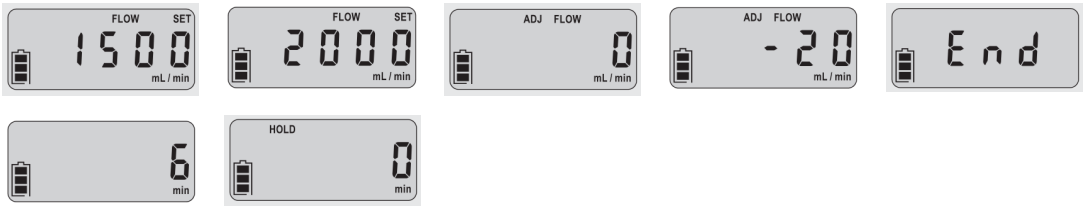
Procedure	When	You need
Manual setting and adjustment (p. 17)	Whenever you set up a sample	A calibrated flowmeter, e.g. a chek-mate
CalChek single-point adjustment (p. 18)	Whenever you set up a sample; automatic	chek-mate flowmeter 375-0550, CalChek communication cable 375-200
CalChek full calibration, see Calibration and verification (p. 24)	During maintenance and after repairs	As for CalChek, plus pulsation dampener 375-100

For flows of 5 to 500 mL/min, the pump is set to a fixed flow and the low flow is set at the tube holder — see Low flow sampling, 5 to 500 mL/min (p. 20).

Manual setting and adjustment

1. Set up the sampling train as your sampling method specifies and connect it to the air inlet port.
2. Connect a calibrated flowmeter, such as a chek-mate, to the inlet of the sampling train.
3. With the pump in HOLD, press [◁▷] to start it.
4. Let it run for at least 5 minutes before you set the flow.
5. Open user interface Level One: switch the pump to HOLD and back to RUN with [◁▷], then within 10 seconds press ○◁▷○ (see The user interface (p. 12)).
6. The flow setting screen appears with **SET** flashing. Press ◁ or ▷ to set the required flow rate, in steps of 10 mL/min.
7. Press ○. The flow adjust screen appears with **ADJ** flashing.

8. Read the flowmeter.
9. Press ◁ or ▷ to adjust the pump's flow up or down in steps of 10 mL/min until the flowmeter shows the required flow within ±10 mL/min.
10. Press ○ twice to reach **End**, then [◁▷]. The pump returns to RUN and now holds the adjusted flow within ±5 %.
11. Press [◁▷] to switch to HOLD.
12. Before you start sampling, reset the run-time data (see Resetting the run-time data (p. 17)).



Manual flow setting: the displays in the order of the steps.

CalChek single-point adjustment

With CalChek, a chek-mate flowmeter (375-0550) reports the measured flow to the pump through the CalChek communication cable (375-200), and the pump adjusts and verifies its flow by itself. Order numbers are in Charging, calibration and data accessories (p. 34).

Note
The pump must have been at ambient temperature for at least 2 hours before you use CalChek.

WARNING

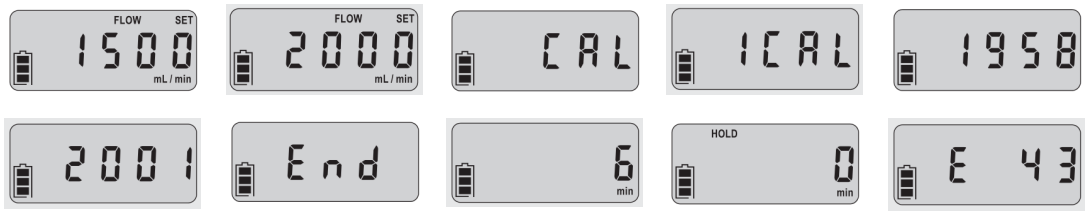
Connecting the CalChek cable to the pump's PC interface port in a hazardous location can ignite an explosive atmosphere. This can cause an explosion. Never connect anything to the PC interface port in a hazardous location (see Use in hazardous locations (p. 6)).

1. Set up the sampling train as your sampling method specifies and connect it to the air inlet port.
2. Connect the air outlet port of the chek-mate to the inlet of the sampling train.
3. Connect the CalChek communication cable between the CalChek socket on the right-hand side of the chek-mate and the PC interface port at the back of the pump (11 in Figure 2 (p. 9)).
4. With the pump in HOLD, press [◁▷] to start it.
5. Let it run for at least 5 minutes.
6. Switch on the chek-mate and check that it shows the pump's current flow. It sends its reading to the pump every 3.5 seconds.
7. Open user interface Level One: switch the pump to HOLD and back to RUN with [◁▷], then within 10 seconds press ○◁▷○. The flow setting screen appears with **SET** flashing.
8. Press ◁ or ▷ to set the required flow rate, in steps of 10 mL/min.
9. Press ○ until **CAL** appears, then press [◁▷] to start the automatic adjustment.
10. The pump reads the chek-mate for a short time until the flow is stable and briefly shows the flow before adjustment. It then adjusts its flow to the set value, reads the chek-mate again and briefly shows the verified flow after adjustment.

11. When the adjustment has succeeded, **End** appears by itself. Press [◁ ▷]: the pump returns to RUN and holds the adjusted flow within ±5 %.
12. Press [◁ ▷] to switch to HOLD, and leave the pump in HOLD for 5 minutes until it goes to SLEEP: the pump writes the verification data to its memory only when it enters SLEEP.
13. Before you start sampling, reset the run-time data (see Resetting the run-time data (p. 17)).

If the adjustment fails, the pump shows an error code; see CalChek error codes (p. 28). Press ○ to clear the code; the pump returns to RUN.

The pump stores the flows before and after adjustment, with date and time, in its history; you can read them with the DataTrac software. CalChek can also check the flow after sampling, but because it may adjust the flow, do this only if you have DataTrac to document the result. Otherwise check the flow after sampling manually with a flowmeter.



CalChek single-point adjustment: the displays in the order of the steps; E 43 is an example error code.

Sampling

The AirChek 3000 samples at constant flow from 1000 to 3250 mL/min with the sampling medium connected straight to the air inlet. For 5 to 500 mL/min it works with a low flow adapter and a constant pressure controller. The sampling method you follow decides the medium, the flow rate and the sampling time.

Before you sample

NOTICE

Running without sample media, aggressive fumes from colour-change tubes, impinger liquid and water in the air inlet can damage the pump. Do not run the pump for long periods without a sorbent tube or filter in line. For long-term colour-change tubes, always use a tandem tube holder with a trap tube. For impingers, always fit a trap between the impinger and the pump inlet, and set the flow below 1 L/min before you connect the trap and the impinger. In rain or spray, make sure that no water can enter the air inlet.

Taking a sample, 1000 to 3250 mL/min

1. Charge the battery fully (see Commissioning (p. 13)). A battery that was not fully charged is a common reason for a pump stopping before the end of the sample.
2. Set the flow rate with the sampling train in line, manually or with CalChek (see Setting the flow rate (p. 17)).
3. Reset the run-time data (see Resetting the run-time data (p. 17)).
4. If the pump should stop by itself, or start later, program a run time or a delayed start (see Programmed run time (p. 15) and Delayed start (p. 16)).
5. With the sampling train connected, press [◁ ▷] to start. The blue pump run LED flashes while the pump runs.
6. To pause, press [◁ ▷]; the pump switches to HOLD and keeps its run-time data.

7. Press [◁ ▷] again to continue.
8. At the end of the sample, press [◁ ▷] to stop the pump (with a programmed run time it stops by itself).
9. Press ○ to read the run time and the sampled air volume.
10. Check the flow after sampling with a flowmeter, or with CalChek only if you document the result with the DataTrac software (see CalChek single-point adjustment (p. 18)).

If the flow is blocked or restricted during the sample, the pump goes into flow fault and tries to restart; see Flow fault (p. 11).

Low flow sampling, 5 to 500 mL/min

Below the pump's compensated range you need a low flow adapter (tube holder) and a constant pressure controller (CPC). Low flow adapters hold one, two, three or four sorbent tubes and have a throttle valve for each tube, with which you set the low flow. The CPC goes on the pump's inlet hose nipple and keeps a constant suction at the outlet of the low flow adapter, so that the flow through the tubes stays stable once it is set. Order numbers are in Gas and vapour sampling accessories (p. 35).

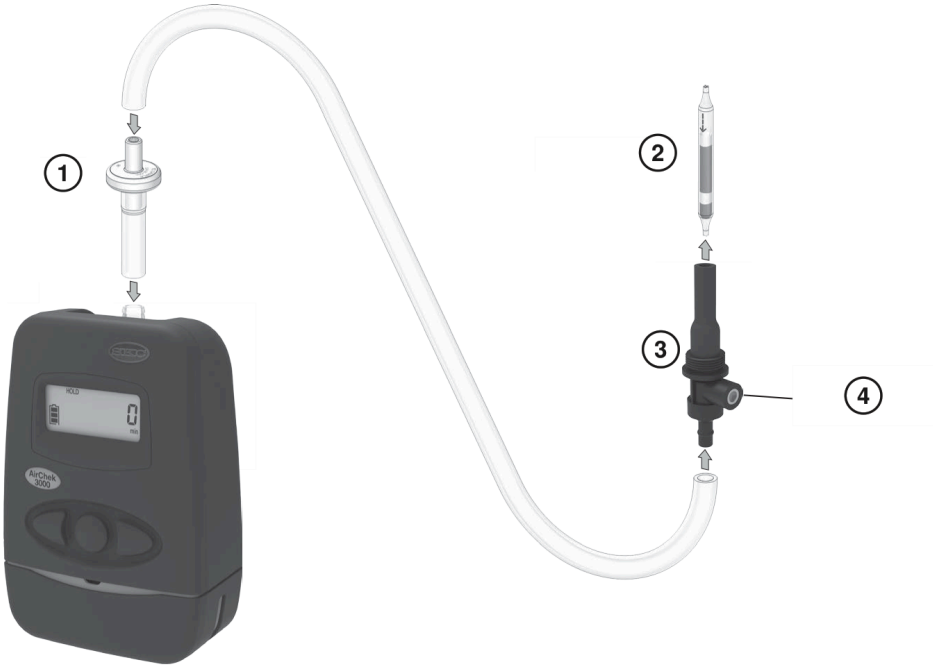


Figure 5. Low flow sampling set-up.
1 Constant pressure controller (CPC) · **2** Sorbent tube · **3** Low flow adapter / tube holder · **4** Throttle valve adjuster

1. Before you connect the sampling train, set the pump's flow to 1500 mL/min in user interface Level One (see Manual setting and adjustment (p. 17), steps 3 to 6), then press ○ until **End** appears and press [◁ ▷]. The CPC needs only an approximate flow, so you do not need a flowmeter for this.
2. Switch the pump to HOLD.
3. Push the short length of tubing on the CPC onto the pump's inlet hose nipple. The labelled side of the CPC must face away from the pump.
4. Connect the low flow adapter to the inlet hose nipple of the CPC with a length of tubing, and fit the sorbent tube into the short tubing on the low flow adapter.
5. Using a calibrated flowmeter, such as a chek-mate or a rotameter, set the required flow with the throttle valve adjuster.

Note

Remove the CPC before you use the same pump for high flow sampling again.

CHAPTER 5

Communication

DataTrac software

With the optional DataTrac software and its USB adapter cable, you program and read out the AirChek 3000 from a PC. The software's own user manual is on the DataTrac USB flash drive; Analyt-MTC also publishes the SKC DataTrac Software for the AirChek 3000 Pump — Operating Manual (AMTC-MN-0021).

⚠ WARNING

Connecting the pump to a PC in a hazardous location can ignite an explosive atmosphere. This can cause an explosion. Never connect the pump to a PC in a hazardous location. Connect the DataTrac PC interface port only to a SELV or PELV circuit, such as a PC's USB port (see Use in hazardous locations (p. 6)).

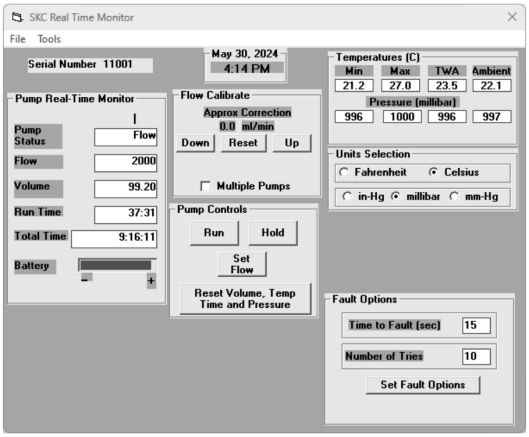
What DataTrac does

Programming

- Program a complete sampling run from the PC: delayed start, timed stop and intermittent sampling.
- Up to ten sampling sequences, each with its own flow rate.
- Create and save a program without the pump connected.
- Run times up to 43 200 minutes (30 days).
- Change the number of automatic restarts after a flow fault.
- Set the flow rate and check it against a calibrated flowmeter.

Records

- Show the pump's operating state: flow rate, temperature, run time and battery status.
- Download the run-time data and history to the PC. The history stays in the pump's memory for days after it stops, as long as the battery is not completely discharged.
- Enter chain-of-custody information with the sample set-up.
- Print a history file, and a worker exposure profile with run-time data and history.
- Document the date of each flow setting and CalChek verification, and validate it; view and print the full-calibration record (see Calibration record (p. 25)).



The DataTrac software window.

PC requirements and ordering

Operating system	Microsoft Windows 7 or later

Disk space	At least 20 MB free
Port	One free USB port
Internet access	Needed to install the driver of the DataTrac USB adapter cable
Order	DataTrac software package, Cat. No. 877-91K: software on USB flash drive and DataTrac USB adapter cable

A program loaded from DataTrac and a run time set on the pump exclude each other; see Programmed run time (p. 15). To delete a DataTrac program on the pump, see Deleting a delayed start or DataTrac program (p. 16).

CHAPTER 6

Calibration and verification

The full calibration calibrates the pump's flow sensor at several points across the whole flow range, with the chek-mate and the CalChek cable. It takes about 10 minutes. Perform it during maintenance and after any repair not done by the manufacturer. With the DataTrac software, the result is recorded for maintenance and quality records.

NOTICE

A full calibration clears the pump history, the run-time settings and the schedule in the DataTrac software. Any of them that you have not saved is then lost. Before you start, save the pump history to your PC with the DataTrac software and note the run-time settings and the schedule.

Before you start:

- Charge the battery pack fully.
- Leave the pump at ambient temperature for at least 2 hours.
- Calibrate without sampling media. Instead, connect a pulsation dampener (375-100) between the pump inlet and the flowmeter outlet.

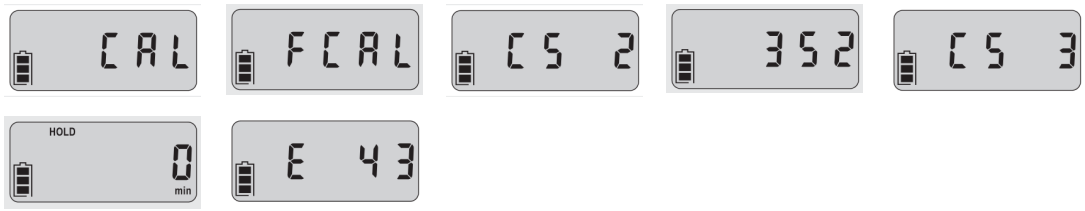
⚠ WARNING

Connecting the CalChek cable to the pump's PC interface port in a hazardous location can ignite an explosive atmosphere. This can cause an explosion. Never connect anything to the PC interface port in a hazardous location (see Use in hazardous locations (p. 6)).

1. Connect one port of the pulsation dampener to the pump's air inlet port and the other port to the outlet port of the chek-mate.
2. Connect the CalChek communication cable between the CalChek socket on the right-hand side of the chek-mate and the PC interface port at the back of the pump.
3. With the pump in HOLD, press [◁▷] to start it.
4. Let it run for at least 5 minutes.
5. Switch on the chek-mate and check that it shows the pump's current flow.
6. Open user interface Level One: switch the pump to HOLD and back to RUN with [◁▷], then within 10 seconds press ○◁▷○.
7. Press ○ until **CAL** appears.
8. Press ◁ seven times. The screen shows **FCAL** and the calibration starts.
9. At each calibration point the screen shows the point number. The pump reads the chek-mate until the flow is stable, briefly shows the calibration flow and moves on to the next point, until it has covered its whole flow range.
10. When the calibration has succeeded, the pump switches to HOLD by itself. Leave it in HOLD for 5 minutes until it goes to SLEEP: the calibration data is written to memory only when the pump enters SLEEP.

Note
At the first few calibration points the flow may be zero or very low. This is normal; do not interrupt the calibration.

To abort the calibration at any point, press [◁ ▷]; the pump switches to HOLD. If the calibration fails, the pump shows an error code (see CalChek error codes (p. 28)); press ○ to clear it and return to HOLD.



Full CalChek calibration: the displays in the order of the steps; E 43 is an example error code.

Calibration record

The DataTrac software shows and prints the result of the last full calibration: in the Pump Manager window, choose **View › Calibration Info**. The window shows the calibration results, the pump's serial number and the date of the last full calibration; the printed report adds the pump's internal software version, the print date and a validation code.

To check that a printed record has not been altered, choose **Tools › Confirm Validation Code** in DataTrac and enter the data from the report, including the validation code; enter the date as mmm dd, yyyy (for example Mar 12, 2011). DataTrac reports whether the record is valid or which value was changed.

Clearing the pump history does not clear the full-calibration data. It is replaced only by a new full calibration, or lost once the pump has stored more than 36 history records.

CHAPTER 7

Maintenance

You can replace the inlet filter and the battery pack yourself, and keep the battery in good condition. Have the pump serviced at least once a year. Before each use in a hazardous location, check the case and the battery pack for damage (see Use in hazardous locations (p. 6)).

Service interval

The manufacturer recommends a service at least once a year: the first one year after purchase, then every year on that date. How often your pump actually needs servicing is for you to decide in your own risk assessment. The service record in Service record (p. 36) helps you keep track; Analyt-MTC carries out the service.

Replacing the inlet filter

A particulate filter under the inlet keeps dust out of the pump mechanism (6 in Figure 1 (p. 9)). Replace it every 2 to 3 months, or sooner if it looks dirty: new filters are white, a blocked filter looks black.

1. Unscrew the inlet filter cover. If it is tight, loosen it with a 13 mm A/F spanner.
2. Take out the O-ring and lift out the old filter.
3. Insert the new filter (P40011) without creasing it, and refit the O-ring.
4. Screw on the inlet filter cover hand-tight only.

Note
If the pump cannot reach its flow, a loose inlet filter cover may be the cause: check that it is tight (see Troubleshooting (p. 28)).

Cleaning

The case is moulded from polycarbonate with an overmoulding of thermoplastic elastomer (TPE). Clean it with warm soapy water. Wipe the LCD window only with a damp cloth.

NOTICE

Solvents such as acetone, xylene or benzene can reduce the durability of the case. Do not use them on the pump, in use or during maintenance.

Battery care

First use	Charge the pack fully. It reaches its full capacity after 2–3 full charge and discharge cycles.
Charging	Charge only with an approved charger (see Chargers (p. 13)), at 0–45 °C. A charger that is not approved voids the battery-pack warranty. Disconnect the pack from the charger after no more than 24 hours.
Discharging	The battery performs best between −10 and +45 °C. The pump itself may be used only from 0 to 40 °C (see Operating conditions (p. 30)).
Regular use	If the battery is only partly discharged each time, its usable capacity can drop. Cycle it once a month: run the pump until it shuts down on low battery, then charge it fully.
Storage and occasional use	1. Charge the pack fully, then disconnect it from the pump. 2. Store it in a cool, dry place at 0–30 °C. 3. Recharge it at least once a year, more often if it is stored above 30 °C. 4. After storage, cycle it 2–3 times to restore its capacity.

Testing the battery pack

1. Connect an approved charger to the battery pack. If the charger's LED lights, the pack's charging input is in order. If it does not light, the pack's input fuse has blown: replace the battery pack.
2. Leave the pack on the charger until it is fully charged.
3. If the pump does not work at all with the fully charged pack, the pack's output fuse has blown or its cells have failed or reached the end of their life: replace the battery pack.
4. If the pump works but shuts down on low battery after a much shorter run time than before, the cells are failing or at the end of their life: replace the battery pack.

Replacing the battery pack

⚠ WARNING

Removing or fitting the battery pack in a hazardous location can ignite an explosive atmosphere. This can cause an explosion. Never remove or fit the battery pack in a hazardous location. Fit it only outside the hazardous location, in a clean, dust-free area.

1. Undo the two security screws that hold the battery pack (12 in Figure 2 (p. 9)) with the 2 mm A/F hex screwdriver from the toolkit.
2. Pull the battery pack carefully downwards off the pump case.
3. Fit the new battery pack (P21030) so that its output connector engages the socket in the base of the pump case.
4. Tighten the two security screws without excessive force.
5. Charge the new battery pack fully before use.

CHAPTER 8

Troubleshooting

Problems and remedies

Problem	Possible cause and remedy
The battery pack does not charge.	• Try the charger with another battery pack; if that fails too, replace the charger. • Try the battery pack on a charger known to work; if it still does not charge, replace the pack.
The pump does not work.	Try a battery pack known to be good. If the pump then works, replace the battery pack. See also Testing the battery pack (p. 27).
The pump goes into flow fault again and again.	• Back pressure of the sampling medium too high: if the method allows, lower the flow rate or use a less restrictive medium. • The inlet particulate filter is blocked (it looks black). Replace it (see Replacing the inlet filter (p. 26)). • The tubing is blocked or kinked. Replace the tubing.
The pump cannot reach the required flow rate.	• The battery is low. Charge it fully. • Back pressure of the sampling medium too high: if the method allows, lower the flow rate or use a less restrictive medium. • The inlet filter cover (hose nipple) is not screwed on tightly enough. Tighten it. • The pump mechanism leaks. Contact Analyt-MTC.
The pump stops on low battery before the end of the sample.	• Battery not fully charged at the start: always start with a full battery. • Battery pack near the end of its life, capacity reduced: replace it. • Back pressure of the sampling medium too high: if the method allows, lower the flow rate or use a less restrictive medium.

CalChek error codes

If a CalChek single-point adjustment or full calibration fails, the pump shows one of these codes. Press ◯ to clear it. If a remedy does not help, contact Analyt-MTC (see Service, warranty and contacts (p. 36)).

Code	Problem	Remedy
E 41	Single point: the correction needed is too large. The chek-mate reading before adjustment differs from the required flow by more than 360 mL/min.	Perform a full calibration (see Calibration and verification (p. 24)). If that does not help, contact Analyt-MTC.
E 42	The average flow reading is unstable: the individual chek-mate readings vary too much.	Repeat the calibration. If that does not help, contact Analyt-MTC.
E 43	Communication time-out: the chek-mate is not communicating with the pump.	Check that both plugs of the CalChek communication cable are firmly connected.
E 44	Full calibration: the flow at the first calibration point is above 750 mL/min — higher than it should be.	The internal tubing of the flow pressure sensor may be pinched or blocked. Contact Analyt-MTC.
E 45	Full calibration: the pump cannot reach 3000 mL/min.	The pump's flow outlet tube may be blocked, or the pump stack may leak. Contact Analyt-MTC.
E 46	Full calibration: data analysis error.	Repeat the full calibration. If that does not help, contact Analyt-MTC.
E 47	Full calibration: the battery is too low (fewer than two bars).	Charge the battery fully, then repeat the full calibration.
E 48	Single point: the pump could not complete the adjustment within 5 chek-mate readings.	Repeat the single-point adjustment. If the error comes back, perform a full calibration.

CHAPTER 9

Specifications

Flow

Flow range	1000–3250 mL/min, constant flow 5–500 mL/min with a low flow adapter, constant pressure
Flow control	±5 % of the set point, constant flow
Flow fault	Pump stops after 15 s of blocked or restricted flow and restarts automatically every 5 minutes, up to 10 times
Particulate trap	Built-in, replaceable inlet filter that keeps particles out of the pump mechanism

Compensation range

Flow rate, mL/min	Back pressure, kPa	in. H_2O
1000	0–8.7	0–35
1500	0–7.5	0–30
2000	0–7.5	0–30
2500	0–6.2	0–25
3000	0–5.0	0–20
3250	0–3.7	0–15

Power

Battery	Rechargeable NiMH battery pack, 4.8 V, 2.0 Ah (P21030)
Charging time	16 hours with the single charger 223-260A or the five-station charger 223-119A
Low battery	Automatic shutdown before the battery is over-discharged; run-time data kept
Mains operation	With battery eliminator 223-330B or 223-330C; not certified for hazardous locations

Typical run times, hours

Back pressure		1.0 L/min	1.5 L/min	2.0 L/min	2.5 L/min	3.0 L/min	3.25 L/min
kPa	in. H_2O						
1.2	5	28	24	20	18	16	15
2.5	10	19	17	14	14	13	12
3.7	15	15	14	12	11	11	10
5.0	20	12	11	10	10	9	–
6.2	25	10	10	9	8	–	–
7.5	30	9	9	8	–	–	–
8.7	35	8	–	–	–	–	–

With a new, fully charged battery, rounded down to full hours. The figures do not allow for back pressure rising as a filter loads; actual run times may differ. “–”: outside the compensation range.

Operating conditions

Operating temperature	0–40 °C (limited by the intrinsic-safety certification)
Charging and storage temperature	0–45 °C
Operating humidity	0–95 % RH, non-condensing
Operating altitude	Up to 2285 m

Display, sensors and functions

Display	LCD: run-time data (run time, flow rate, volume, temperature, clock, atmospheric pressure), operating and fault states, battery charge
Timing accuracy	1 minute per month at 25 °C
Atmospheric pressure accuracy	±10 mbar (±0.3 inHg)
Temperature accuracy	±5 % of reading
Programming on the pump	Run time 1–999 minutes; delayed start in hours and minutes
Sample hold	Pause and restart a sample without losing the run-time data
Automatic flow adjustment	CalChek, with chek-mate flowmeter 375-0550 and CalChek communication cable 375-200
PC connection	DataTrac software and USB adapter cable (877-91K): timed runs, delayed starts, intermittent sampling, run-time data and history

Mechanical

Dimensions (H × W × D)	133 × 90 × 59 mm
Weight	580 g
Case	Polycarbonate, two-shot moulded with TPE overmoulding; belt clip
Ingress protection	IP64: dust-tight, protected against splashing water

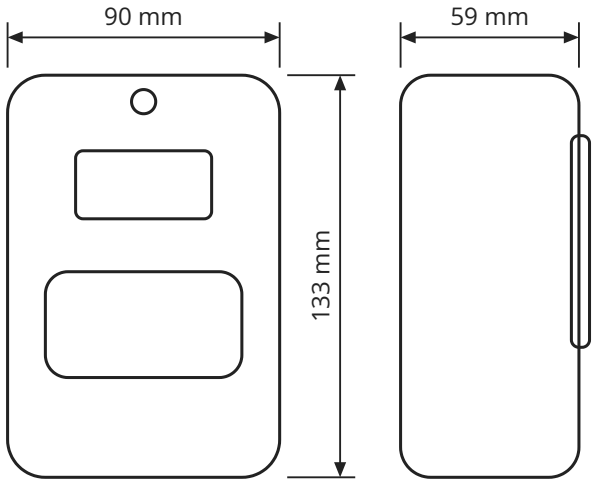


Figure 6. Dimensions of the pump.

Certification

Marking	II 1G Ex ia IIC T4 Ga II 1D Ex ia IIIC T120°C Da I M1 Ex ia I Ma T_a = 0 °C to +40 °C · IP64
ATEX	Certificate SIRA 11ATEX2121X; Directive 2014/34/EU; standards EN IEC 60079-0:2018, EN 60079-11:2012
IECEx	Certificate IECEx SIR 11.0055X; standards IEC 60079-0:2017, IEC 60079-11:2011
UKEX	Certificate CSAE 22UKEX1237X; UK Regulations 2016 No. 1107; standards EN IEC 60079-0:2018, EN 60079-11:2012
Gases, vapours, mists	Zones 0, 1 and 2; groups IIA, IIB and IIC; temperature classes T1 to T4; EPL Ga, Gb and Gc
Dusts	Zones 20, 21 and 22; groups IIIA, IIIB and IIIC; maximum surface temperature T120°C; EPL Da, Db and Dc
Mines	Group I (firedamp and/or coal dust); EPL Ma and Mb
DataTrac PC interface port	Maximum input voltage U_m = 6 V; connect only to SELV or PELV circuits

For copies of the ATEX, IECEx and UKEX certificates, ask Analyt-MTC. The certification applies only under the conditions in Safety (p. 6).

CHAPTER 10

Ordering information

Order from Analyt-MTC with the order codes.

Use only original parts: other components may invalidate the intrinsic-safety certification (see Approved battery, chargers and parts (p. 6)).

Pump and kits

Order code	Description
210-3311	Pump with NiMH battery pack and toolkit
210-3311K	Single Pump Basic Kit: pump with NiMH battery pack and toolkit, single charger, Tygon tubing and Step by Step Guide, in a carry case
210-3311K5	Five Pump Basic Kit: 5 pumps with NiMH battery packs and toolkits, five station charger, Tygon tubing for each pump and 3 Step by Step Guides, in a carry case
210-3311KP	Single Pump Dust Sampling Kit: the Single Pump Basic Kit, plus IOM Multidust sampler, 5 IOM Multidust cassettes, IOM foams and Calidaptor
210-3311K5P	Five Pump Dust Sampling Kit: the Five Pump Basic Kit, plus 5 IOM Multidust samplers, 15 IOM Multidust cassettes, IOM foams and Calidaptor
210-3311KV	Single Pump Vapour Sampling Kit: the Single Pump Basic Kit, plus All-in-One tube holder and CPC, type A protective tube cover and tube breaker
210-3311K5V	Five Pump Vapour Sampling Kit: the Five Pump Basic Kit, plus 5 All-in-One tube holders and CPCs, 5 protective tube covers and tube breaker
210-3311KC	Single Pump Dust and Vapour Kit: the dust and the vapour sampling accessories of the two single pump kits together
210-3311K5C	Five Pump Dust and Vapour Kit: the dust and the vapour sampling accessories of the two five pump kits together

Pump components

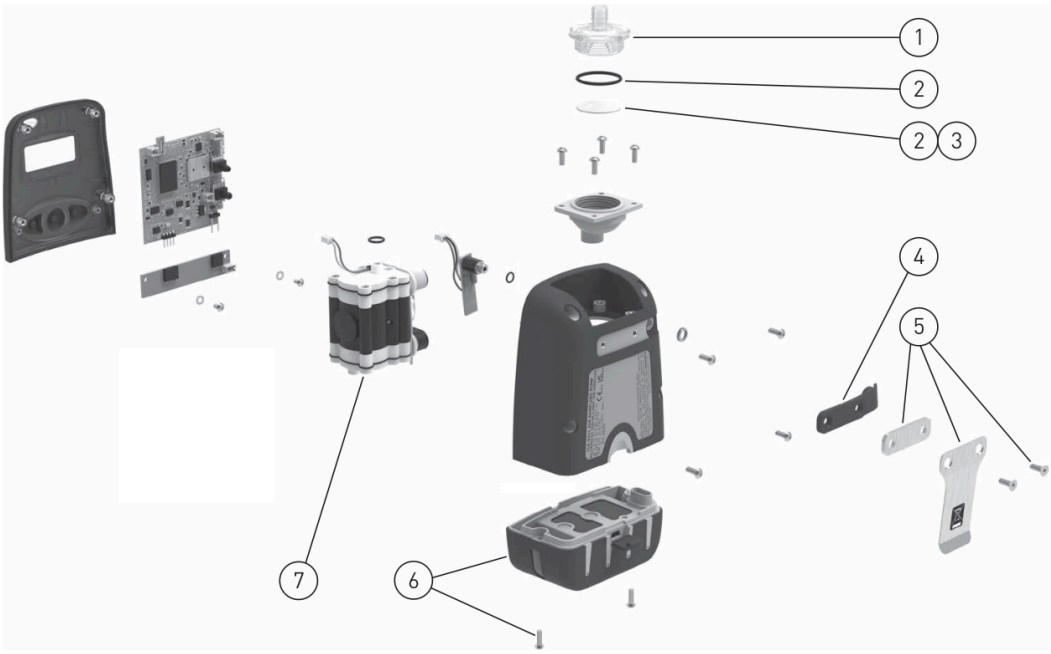


Figure 7. Pump components (1). Numbers as in the spare parts table.

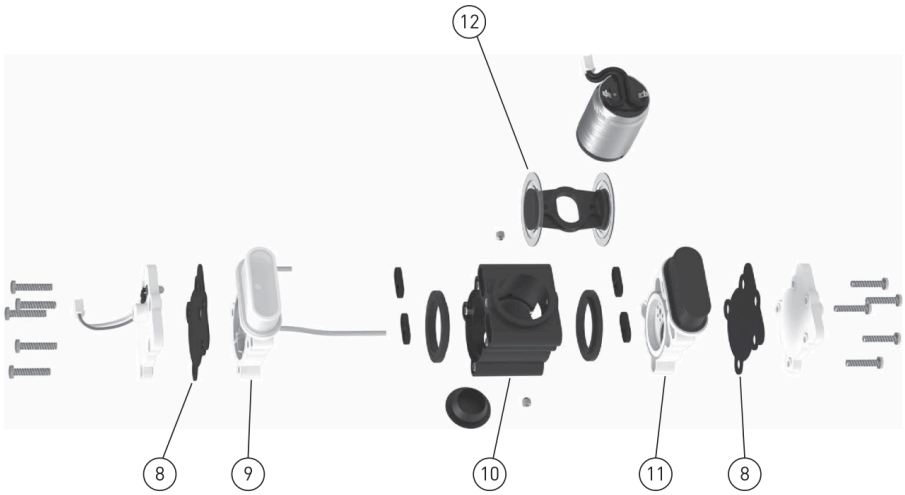


Figure 8. Pump components (2): stack assembly. Numbers as in the spare parts table.

Spare parts

Item	Order code	Description
1	P210301	Inlet filter cover / hose nipple
2	P210308	Inlet filter and O-ring, set of 3 filters and 3 O-rings
3	P40011	Inlet filter, pack of 50
4	P210303	DataTrac PC interface port cover
5	P210304	Belt clip and spacer
6	P21030	Battery pack, NiMH, 4.8 V, 2.0 Ah
7	P210305	Stack assembly (without motor)
8	P21273	Stack gaskets, set of 2
9	P210315	Top valve plate assembly
10	P22417G	Pump body
11	P210316	Bottom valve plate assembly
12	P22417HC	Yoke and diaphragm assembly
–	P210302	Toolkit for the AirChek 3000 (2 mm A/F hex screwdriver)

The manufacturer recommends having the pump serviced regularly by an authorised service centre. Because an incorrect repair can compromise the certification for explosive atmospheres, the complete range of internal parts is supplied only to authorised service centres. For a part not listed here, or for a repair, contact Analyt-MTC.

NOTICE

If the sealing rib is damaged or does not sit correctly, the pump case loses its IP64 rating. When you reassemble the case, check that the sealing rib at the back of the front case is in good condition and sits correctly in the recess around the front edge of the rear case. Do not overtighten the case screws.

Charging, calibration and data accessories

Order code	Description
223-260A	Single battery charger, 100–240 V AC, 50/60 Hz, with UK, EU, US and AUS mains plugs
223-119A	Five-station battery charger, 100–240 V AC, 50/60 Hz, with UK, EU, US and AUS mains plugs
223-330B	Battery eliminator, 230 V AC, 50 Hz, EU 2-pin mains plug — not for hazardous locations
223-330C	Battery eliminator, 230 V AC, 50 Hz, UK 3-pin mains plug — not for hazardous locations
224-88	Protective pouch, black
224-96A	Protective pouch, high-visibility red
224-96C	Noise-reducing pouch, black
375-00205	chek-mate flowmeter, 20–500 mL/min, accuracy ±1 % of reading (±2.5 % at 20–50 mL/min)
375-0550	chek-mate flowmeter, 0.5–5.0 L/min, accuracy ±1 % of reading (±2.5 % at 0.5–0.75 L/min)
375-100	Pulsation dampener, for the chek-mate 375-0550
375-200	CalChek communication cable, for the chek-mate 375-0550
877-91K	DataTrac software package: software on USB flash drive and DataTrac USB adapter cable

Dust sampling accessories

Order code	Description
225-70A	IOM sampler, plastic, with two-part plastic filter cassette and clip
225-76A	IOM sampler, stainless steel, with two-part stainless steel filter cassette and clip
225-79A	IOM sampler, plastic, with two-part stainless steel filter cassette and clip
225-71A	IOM two-part plastic filter cassette with cap and clip
225-75A	IOM two-part stainless steel filter cassette with cap and clip
391-01	Calidaptor flow calibration adapter for the IOM sampler
225-772	IOM foam plug for respirable and multi-dust sampling, pack of 10
225-772-50	IOM foam plug for respirable and multi-dust sampling, pack of 50
225-69	Cyclone sampler, plastic, with plastic cassette for 25 mm filters
225-69-37	Cyclone sampler, plastic, with plastic cassette for 37 mm filters
225-62	Cyclone plastic cassette for 25 mm filters, with clip
225-62-37	Cyclone plastic cassette for 37 mm filters, with clip
225-67-10	Filter transport cassette for 25 mm filters, pack of 10

Gas and vapour sampling accessories

Order code	Description
210-500	Low flow adapter kit: constant pressure controller (CPC), single adjustable low flow adapter / tube holder, type A protective cover
224-26-CPC	Constant pressure controller (CPC), 20 in. H_2O
224-26-01	Adjustable low flow adapter / tube holder, single
224-26-02	Adjustable low flow adapter / tube holder, double
224-26-03	Adjustable low flow adapter / tube holder, triple
224-26-04	Adjustable low flow adapter / tube holder, quadruple
224-29A	Protective cover type A, 6 mm diameter × 70 mm
224-29B	Protective cover type B, 8 mm diameter × 110 mm
224-29C	Protective cover type C, 10 mm diameter × 150 mm
224-29D	Protective cover type D, 10 mm diameter × 220 mm
224-29P	Protective cover for low-volume polyurethane foam (PUF) tubes
224-29V	Tube holder for OVS (OSHA versatile sampler) tubes
Ask Analyt-MTC	Tube tip breaker

For filters, sorbent tubes, impingers and other sampling media, ask Analyt-MTC.

CHAPTER 11

Service, warranty and contacts

Analyt-MTC is your contact for everything concerning the AirChek 3000: technical questions, the annual service, repairs, spare parts, accessories, sampling media and warranty claims.

Contact

ANALYT-MTC Messtechnik GmbH

German Headquarters

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Germany

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French Subsidiary

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France

+33 3 89 41 47 78

info@analyt-mtc.fr

www.analyt-mtc.com

Before you contact Analyt-MTC

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

- the model and serial number from the rating label on the back of the pump — the pump also shows the last four digits of its serial number when it wakes from SLEEP;
- the internal software version, shown on the LCD right after the serial number;
- what happened, and any error code the pump displayed (see Troubleshooting (p. 28)).

Service record

The manufacturer recommends a service at least once a year, starting one year after the date of purchase (see Service interval (p. 26)). Record the pump's details and each service here.

Model	AirChek 3000, Cat. No. 210-3311
Serial number	
Date of purchase	

Service	Date	Service	Date	Service	Date
1		5		9	
2		6		10	
3		7		11	
4		8		12	

Warranty

Make warranty claims to Analyt-MTC; the warranty is governed by Analyt-MTC's terms and conditions.

Disposal



The pump carries the crossed-out wheeled bin symbol: at the end of its life it must not go into household waste, but must be disposed of as electrical and electronic equipment under the WEEE rules that apply in your country. Remove the battery pack first. The NiMH battery pack, and any spare packs, must be collected separately and recycled or disposed of under the battery rules that apply in your country. For details on how to comply, contact Analyt-MTC.

ANALYT-MTC Messtechnik GmbH

Sales, service and calibration

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AMTC-MN-0035 · Rev. 2 · 2026-10

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