ANALYT MESSTECHNIK



OPERATING MANUAL

SKC AirChek Connect Sample Pump

Charging, set-up, flow rate verification in constant flow and constant pressure mode, sampling and data transfer by Bluetooth with the AirChek Connect personal air sampling pump, 5 to 5000 mL/min, with maintenance, specifications and ordering information.

AMTC-MN-0036

About this manual

The SKC AirChek® Connect is a personal air sampling pump for flows from 5 to 5000 mL/min, operated from a touch screen and linked to a PC by Bluetooth. It samples in two modes: *constant flow*, where the pump measures the flow and holds it at the set value, and *constant pressure*, where it holds a set inlet pressure — convenient for sorbent tubes at low flows. This manual takes you from unpacking to a finished sample: charging the battery, setting up the pump, verifying the flow rate in either mode, running manual, timed and preset samples, and reading the sample history. Later chapters cover the maintenance you may do yourself, troubleshooting, the technical data and the order numbers of accessories and spare parts.

Read Safety (p. 6) before you use the pump for the first time — the pump's intrinsic-safety ratings, listed under Certifications (p. 35), apply only under the conditions set out there. To start sampling quickly, follow Commissioning (p. 12), Verifying the flow rate (p. 18) and Sampling (p. 24) in that order.

The manual applies to the AirChek Connect pump, Cat. No. 220-4000, and to every kit built around it (Cat. No. 220-4000-…). Analyt-MTC supplies, services and supports the pump; for questions, repairs and spare parts see Service, warranty and contacts (p. 38).

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: **Run**.
- A menu path such as **Menu › Sample › Flow** means that you open each entry in turn.

Abbreviations

Abbreviation	Meaning
CPC	Constant pressure controller
LED	Light-emitting diode
PC	Personal computer
USB	Universal Serial Bus

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.

Screen names are written in bold as well. **Menu** is the Main Menu key at the bottom right of the screen.

Document information

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

Safety

Read this chapter before you use the pump for the first time. The intrinsic-safety rating of the AirChek Connect applies when the pump runs on its original battery pack, with approved components only. The rules in this chapter protect that rating, the people working with the pump, or both.

Intended use

The AirChek Connect is a personal air sampling pump: it draws air through a sample medium, such as a filter cassette or a sorbent tube, at 5 to 5000 mL/min. Use it as this manual describes, only with battery pack P75718 or P75718A and with the approved charging cradles, spare parts and accessories (see Approved parts and accessories (p. 7)).

Charging the pump, running it from a charging cradle, or removing and replacing its battery pack in a hazardous location, and using a non-approved battery pack, charging cradle or part, are misuse: they can make the pump unsafe, as the sections below explain.

Hazardous locations

The pump, Cat. No. 220-4000, is rated intrinsically safe (Ex ia) for hazardous locations when it runs on battery pack P75718 or P75718A. The ratings are listed under Certifications (p. 35). The charging cradles are not covered by this certification.

⚠ WARNING

Charging the pump, running it from a charging cradle, or removing and replacing its battery pack in a hazardous location can ignite an explosive atmosphere. So can a non-approved part or a charging input above 12 V, because either can impair intrinsic safety. This can cause an explosion. Never charge the pump, or run it from a charging cradle, in a hazardous location. Remove and replace the battery pack only in an area known to be non-hazardous. Replace components only with approved parts. Charge only in an approved charging cradle (see Approved parts and accessories (p. 7)). The charging input must never exceed 12 V (maximum charge input voltage U_m = 12 V).

Battery pack

The pump runs on a rechargeable lithium-ion (Li-Ion) battery pack, Cat. No. P75718 or P75718A. Treat it like any Li-Ion battery: it stores enough energy to start a fire if it is damaged or overheated. The packs were evaluated for a maximum charging voltage of 8.4 V DC and a maximum charging current of 1 A; these values must not be exceeded, which the approved cradles and power supplies ensure.

⚠ WARNING

A damaged or overheated battery pack can catch fire or explode, and so can any battery other than P75718 or P75718A. A fire or explosion can cause burns. Do not disassemble the battery pack, heat it above 212 °F (100 °C) or put it in a fire. Replace the battery pack only with battery pack P75718 or P75718A. Keep battery packs out of the reach of children, and in their original packaging until you use them. Dispose of used battery packs promptly, following local and national recycling or waste regulations.

Note
Switch the pump off before you remove the battery pack.

Approved parts and accessories

Power the pump only from battery pack P75718 or P75718A, and charge it only in an approved charging cradle: the Standard Charging Cradle (Cat. No. 220-800), or the cradles Cat. No. 220-900 and 220-850, which the manufacturer also approves for this pump. Use only the approved spare parts and accessories listed in Ordering information (p. 36).

NOTICE

An unapproved battery or charging cable can damage the pump and voids the warranty. A repaired or rebuilt battery pack also voids the warranty. Use only the approved parts listed in Approved parts and accessories.

⚠ WARNING

Powering the pump from any device — a charging cradle included — or from any battery pack other than P75718 or P75718A voids the intrinsic-safety certifications and the warranty. In a hazardous location, the pump can then ignite an explosive atmosphere. In a hazardous location, run the pump only on battery pack P75718 or P75718A. The manufacturer states that the pump can be operated from a cradle; do so only outside hazardous locations.

What you may service yourself

You may replace the external parts of the pump: the inlet filter, the battery pack, the protective screen cover and the belt clip. Maintenance (p. 31) describes each task. Everything else — and in particular anything inside the pumping compartment — is service work, which keeps the pump's performance and its intrinsic-safety rating. Repairs must be done by the manufacturer's authorised service; contact Analyt-MTC to arrange them.

⚠ WARNING

Opening the pumping compartment can compromise the intrinsic-safety rating of the pump, and it voids the warranty. In a hazardous location, the pump can then ignite an explosive atmosphere. Do not open the pumping compartment.

Ignoring the warnings, cautions and notes in this manual can cause injury, and voids the warranty.

CHAPTER 2

Product description

Checking the contents

Check the delivery against the table below. If anything is missing, contact Analyt-MTC (see Service, warranty and contacts (p. 38)). The pump on its own, Cat. No. 220-4000, comes without a charging cradle and power supply; order these separately before you can charge it (see Charging and data accessories (p. 36)). All power supplies work on 100–240 V mains.

Order code	Contents
220-4000	Pump with Li-Ion battery pack and screwdriver set

The DataTrac Pro software that goes with the Bluetooth adapter is a free download (see Using the pump with a PC (p. 30)).

Parts of the pump



Figure 1. Pump parts. Left: front and side view; right: top view with the screen cover open.
1 Protective screen cover · **2** On/off button (recessed) · **3** Belt clip (on the back, not visible) · **4** Charging contacts · **5** Battery pack · **6** Touch screen · **7, 8** Status LEDs · **9** Inlet housing with filter

Constant flow and constant pressure

The pump samples in two modes. In *constant flow* mode the pump measures the flow directly and holds it at the set value.

In *constant pressure* mode it holds the set *inlet pressure* for the whole sample instead, and the flow follows from that pressure and the resistance of the sampling train: a higher pressure gives a higher flow. As long as the resistance of the sampling train does not change during the sample, the flow stays constant. The mode is convenient for sorbent tubes at low flows (see Verification in constant pressure mode, 100 to 1000 mL/min (p. 22)).

Switching on and off

The on/off button is recessed in the side of the pump (2 in Figure 1 (p. 8)). Press it to switch on: the screen lights and shows the Flow screen. Press it again to switch off. A pump that is not running switches itself off after 5 minutes without use, to save the battery.

While a sample is running, the same button locks and dims the screen, and unlocks it again (see Screen: Dim, Auto Lock and Secure Lock (p. 16)).

Screens and menus

The pump starts on the **Flow** screen, where you can set the flow, adjust it and start a sample straight away. Every other function is reached from the **Main Menu**, opened with the Main Menu key at the bottom right.

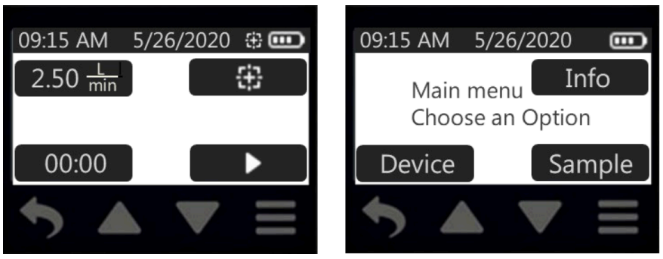


Figure 2. Left: the Flow screen shown at switch-on — flow rate (top left), **Adjust Flow** (top right), sample duration (bottom left), **Run** (bottom right). Right: the Main Menu with **Info**, **Device** and **Sample**.

Main Menu	Sub-menu	What you find there
SAMPLE — SETTING AND VERIFYING THE FLOW, SAMPLING		
	Flow	Constant flow mode: set flow, adjust flow (flow rate verification), set duration, **Run**
	Advanced	Constant pressure mode: set pressure, set duration, **Run**
	Presets	Presets P1 to P4, programmed in DataTrac Pro and uploaded to the pump
DEVICE — HISTORY AND SETTINGS		
	History	List of sample runs with their summaries
	Clock	Time, date, clock format, date format
	Units	Temperature and atmospheric pressure units
	Screen	Dim, Secure Lock, Auto Lock
INFO — PUMP INFORMATION		
		Firmware version, lifetime run time and volume, serial number, date of manufacture

The display

The top line of every screen shows the time (12- or 24-hour clock), the date (in one of three formats) and the battery status. While the pump samples, the screen shows the flow rate and the elapsed run time; the line in between scrolls through the accumulated volume, the ambient temperature, the atmospheric pressure and the back pressure. The screen figures in this manual show the factory settings for time, date and units; choose yours as described in Operation (p. 14).

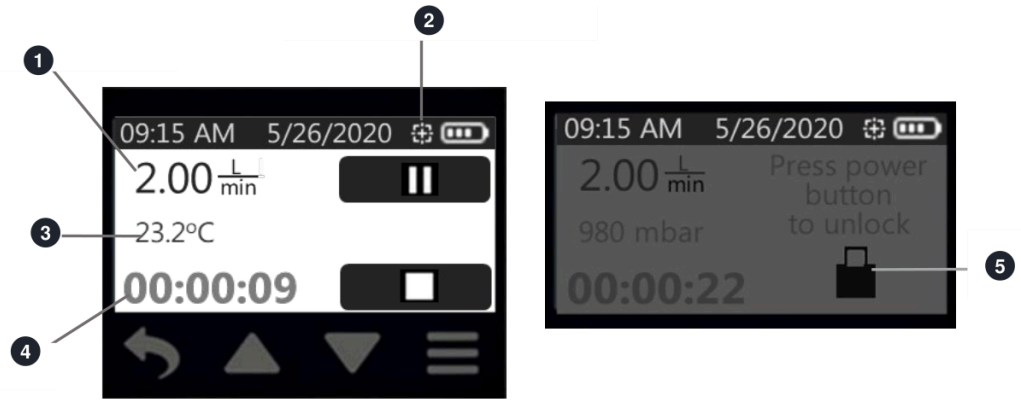


Figure 3. Left: pump sampling, screen not locked. Right: pump sampling, screen locked against accidental touches or tampering (shown dimmed).
1 Flow rate — L/min in constant flow mode, inH_2O in constant pressure mode · **2** Flow adjustment applied · **3** Scrolling display: accumulated volume (L), ambient temperature (°F or °C), atmospheric pressure (mbar, inHg or mmHg), back pressure · **4** Elapsed run time · **5** Lock symbol, with the message “Press power button to unlock”

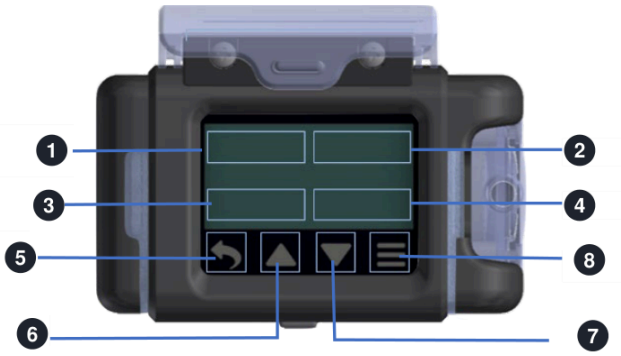
Status LEDs

Two LEDs, one either side of the screen (7 and 8 in Figure 1 (p. 8)), show the pump's state without reading the display.

LEDs	Meaning
Green, flashing	The pump is running.
Red, flashing	Flow fault (see Flow faults (p. 28)).
Red and green, flashing alternately	The flow is out of tolerance: the pump is about to enter flow-fault mode, or is attempting an automatic restart after a flow fault.

Using the touch screen

Open the protective screen cover to reach the screen, and touch the buttons gently with a fingertip. The screen has eight touch zones: four on-screen buttons, whose function changes from screen to screen, and four fixed navigation keys below them.



	Navigation key
	**Back** — returns to the previous screen.
	**Up** — increases the selected value, or moves up a list, range or display. Touch and hold to change a flow or pressure setting faster.
	**Down** — decreases the selected value, or moves down. Touch and hold to change faster.
	**Main Menu** — opens the Main Menu from any screen.

Figure 4. Touch zones. **1–4** On-screen buttons one to four · **5** Back · **6** Up · **7** Down · **8** Main Menu

The on-screen buttons use these symbols:

	Button	What it does
	**Check mark**	Saves the selection or setting.
	**Left/right**	Moves along a scale — the flow scale in steps of 0.5 L/min — or from one field to the next, ready for a value.
	**Adjust Flow**	Adjusts the flow during flow rate verification, with the up/down keys on a scale from −10 to +10.
	**Run**	Starts the pump for sampling.
	**Pause**	Pauses a running pump; elapsed time and volume stop accumulating and continue when you touch **Run**.
	**Stop**	Stops the pump and resets elapsed time and volume to zero. The run data is kept in the Sample Summary and the history.

Battery status

The battery symbol at the top right of the screen has four bars that disappear as the battery discharges.

Bars	Charge remaining
4	approx. 75–100 %
3	approx. 50–75 %
2	approx. 25–50 %
1	approx. 5–25 %
none	A low-battery fault is imminent: the pump will stop and switch off. The run data is kept in the history, and a fault symbol appears when the pump is switched on again.

CHAPTER 3

Commissioning

Charge every battery pack completely before you use the pump for the first time, and again before each flow rate verification and sample. A full charge takes about 3 hours. The pump can also sample while it stands in a powered cradle; run time is then unlimited.

⚠ WARNING

Charging the pump, or running it from a charging cradle, in a hazardous location can ignite an explosive atmosphere. This can cause an explosion. Never charge the pump, or run it from a charging cradle, in a hazardous location. Charge only in the approved cradles listed in Approved parts and accessories (p. 7), powered by the power supplies described below.

Setting up the cradles

Each pump charges in its own Standard Charging Cradle (Cat. No. 220-800). One power supply feeds one cradle or a chain of up to five. Charge within 0 to 45 °C.

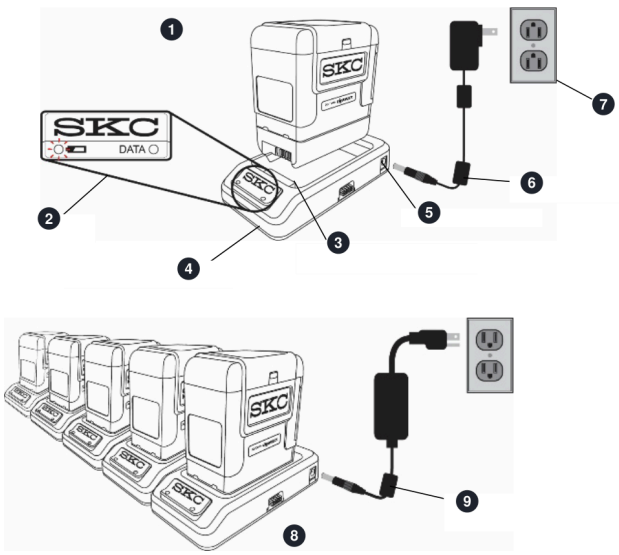


Figure 5. Charging with one cradle (top) and with five chained cradles (bottom).
1 Pump · **2** Charge status LED (left LED on the cradle) · **3** Charging contacts · **4** Charging cradle · **5** Power port · **6** Single Cradle Power Supply · **7** Mains outlet, 100–240 V · **8** Cradle connector · **9** Multi Cradle Power Supply

1. **One cradle:** plug the connector of the Single Cradle Power Supply (Cat. No. 220-600) into the power port on the side of the cradle, then plug the power supply into a 100–240 V mains outlet.
2. **Several cradles:** push the connector on the side of one cradle into the connector of the next. Chain up to 5 Standard Charging Cradles. Plug the Multi Cradle Power Supply (Cat. No. 220-700) into the power port of the last cradle in the chain, then into a 100–240 V mains outlet.
3. Align the charging contacts on the bottom edge of the pump with the contacts in the cradle and set the pump in. Repeat for each pump.
4. Leave the pumps in the cradles until the charge status LED is steady green (about 3 hours).

Reading the charge status

The left LED on the cradle shows the charge status. Watch it for more than 5 seconds before you read it, since one state is a repeating pattern.

Left cradle LED	Charge status
Red, steady	Charging

Left cradle LED	Charge status
Red 3 s, green 1 s, repeating	About 75 % charged
Green, steady	Fully charged; trickle charge

CHAPTER 4

Operation

Operation runs from the settings you make once to the finished sample: set the clock, the display units and the screen settings; set and verify the flow rate before and after every sample; run the sample; then read its history on the pump or in DataTrac Pro.

Set the clock and the display units once, before the first sample, so that the sample summaries and the history carry the right times and values. The screen settings decide how well a running sample is protected against accidental or deliberate changes.

All device settings are under **Menu › Device**, which shows the buttons **History**, **Clock**, **Units** and **Screen**. After each change the pump returns to the sub-menu you came from. The pump leaves the factory with these settings:

Setting	Factory setting
Dim	On
Auto Lock	Off
Secure Lock	Off
Temperature unit	°F
Atmospheric pressure unit	inHg
Time format	12-hour
Date format	mm/dd/yyyy

Time and date

Open **Menu › Device › Clock**. The Clock screen shows the time, the date and the current clock and date formats; touch the one you want to change.

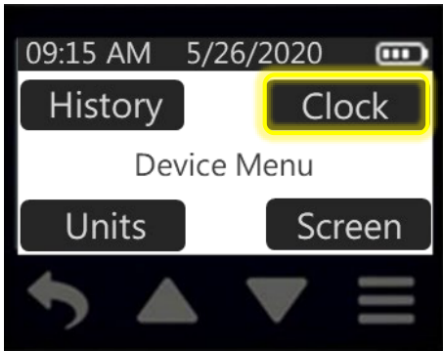


Figure 6. The **Device** menu.

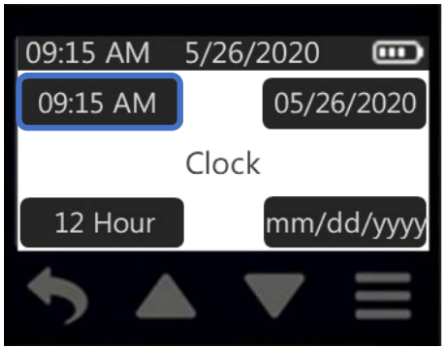


Figure 7. The **Clock** screen: touch the value you want to change.

To set the time:

1. Touch the time. The hour digits flash.
2. Set the hour with the up/down keys. Touch the right arrow to move to the minutes and set them; the up/down keys also switch between AM and PM.
3. Touch the check mark. The new time is shown on the Clock screen.

To set the date:

1. Touch the date. The month digits flash.
2. Set the month with the up/down keys, touch the right arrow, set the day, touch the right arrow again and set the year.
3. Touch the check mark. The new date is shown on the Clock screen.



Figure 8. Setting the time: digits and arrows (top), check mark to save (bottom).



Figure 9. Setting the date: digits and arrows (top), check mark to save (bottom).

To change the formats: touch the clock format button (**12 Hour**) and choose **12 Hour** or **24 Hour**; touch the date format button (e.g. **mm/dd/yyyy**) and choose one of the three date formats. The pump returns to the Clock screen with the new format.

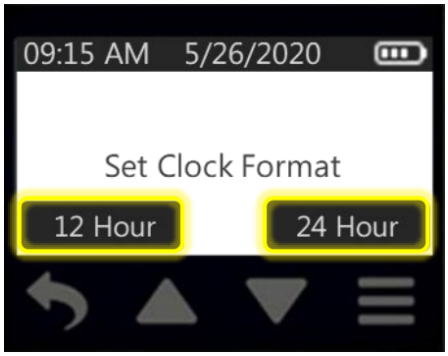


Figure 10. The **Set Clock Format** screen.

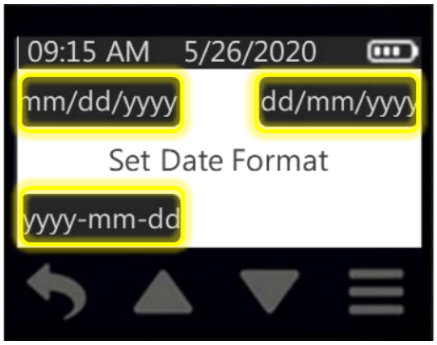


Figure 11. The **Set Date Format** screen.

Display units

1. Touch **Menu › Device › Units**.
2. Touch **Temp** and choose **°F** or **°C**.
3. Touch **ATM** and choose **mbar**, **inHg** or **mmHg**.

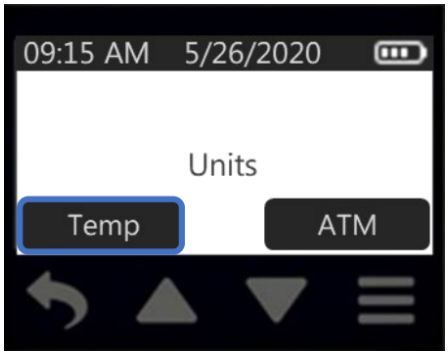


Figure 12. The **Units** screen.

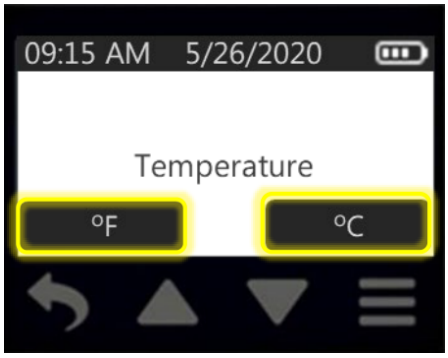


Figure 13. Choosing the temperature unit.



Figure 14. Choosing the atmospheric pressure unit.

> **Note**
> The pressure unit applies only to the atmospheric pressure — on the screen, in the Sample Summary and in the history. The back pressure (inlet pressure) is always shown in inH_2O.

Screen: Dim, Auto Lock and Secure Lock

Open **Menu › Device › Screen** and touch **Dim**, **Auto Lock** or **Secure Lock**; then touch **On** or **Off**. The three settings work together during a sample:

Setting	On	Off
Dim	Pressing the on/off button on a running pump dims and locks the screen. Together with Auto Lock, the screen dims and locks by itself when the sample starts. Saves battery power.	The backlight stays on for the whole sample.
Auto Lock	The screen locks as soon as the pump starts a sample, and shows a lock symbol with “Press power button to unlock”. Protects against accidental touches.	The screen stays active. You can still lock it at any time during a sample with the on/off button.
Secure Lock	Unlocking needs a four-digit passcode as well as the on/off button. Protects a sample against tampering.	The on/off button alone unlocks the screen.

To unlock a locked screen, press the on/off button on the side of the pump; with Secure Lock on, then enter the passcode on the screen keypad.

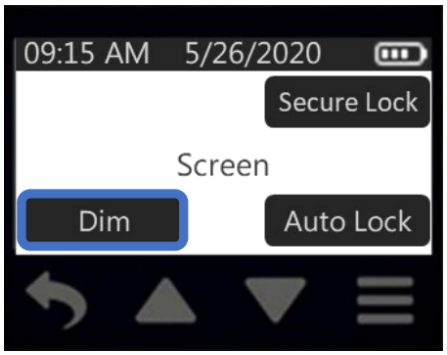


Figure 15. The **Screen** menu.

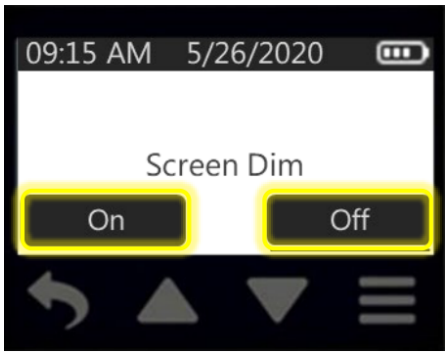


Figure 16. The **Screen Dim** setting.

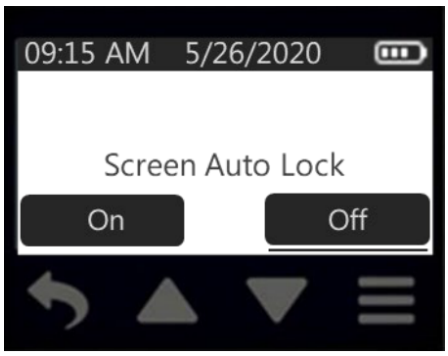


Figure 17. The **Screen Auto Lock** setting.

Switching Secure Lock on or off

1. Touch **Menu** › **Device** › **Screen** › **Secure Lock**, then **On**.
2. Enter a four-digit passcode of your choice on the screen keypad (buttons 1 to 4). The digits are shown as ****.
3. Enter the same passcode again to confirm. With the last digit the passcode is saved, and the pump returns to the Screen menu.

To switch Secure Lock off, touch **Secure Lock**, then **Off**, and enter the passcode when prompted.

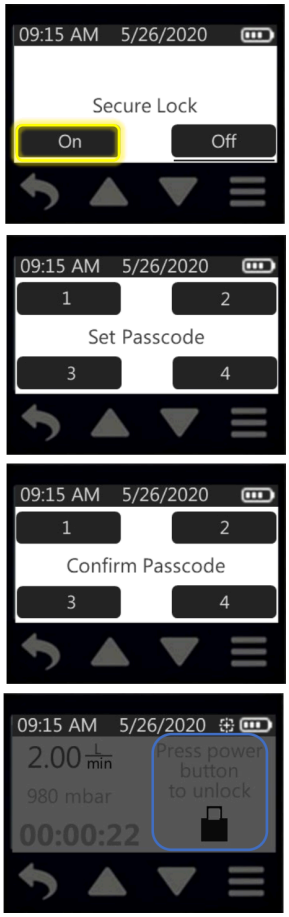


Figure 18. Switching Secure Lock on: **On**, set the passcode, confirm it; the screen of the running pump is then locked.

> **Note**
> **Forgotten the passcode?** When the pump asks for it, touch **1**, **2**, **3** on the keypad, then the navigation keys **Main Menu**, **Up**, **Down**, **Main Menu**. This master unlock opens the screen but leaves Secure Lock switched on.

Verifying the flow rate

The sample volume is flow rate times time, so the result is only as good as the flow rate. Verify the flow with a flowmeter before and after every sample, with a representative sample medium in line — the same type of tube, filter or sampler you will sample with — because the medium's resistance changes the flow the pump delivers.

Before you verify

> **Note**
> The flow rate shown on the pump is not calibrated traceably to national or international standards, so it cannot be used to verify the flow. Always verify with a flowmeter that has a traceable calibration.

- Charge the battery completely (see Commissioning (p. 12)).
- If the pump has come from a much colder or warmer place, let it adjust to the room temperature first.
- Let the pump run for 5 to 15 minutes before you verify the flow; the results are best that way.
- Verify the flow through the complete sampling train, before and after each sample.
- Choose the method for your flow range:

Flow range	Pump mode	Method and what you need
1–5 L/min	Constant flow	Verification at 1 to 5 L/min (p. 19): a flowmeter with traceable calibration, e.g. a chek-mate Flowmeter
5–500 mL/min	Constant flow	Verification at 5 to 500 mL/min (p. 20): a flowmeter; All-in-One adjustable tube holder (one tube), or Dual, Tri or Quad Adjustable Low Flow Tube Holder with a Constant Pressure Controller (CPC) (several tubes)
100–1000 mL/min	Constant pressure	Verification in constant pressure mode, 100 to 1000 mL/min (p. 22): a flowmeter; no All-in-One holder or CPC needed

Setting the flow rate

1. Touch **Menu** › **Sample** › **Flow**, then touch the flow rate display.
2. Set the flow roughly with the left/right arrows, which change it in steps of 0.5 L/min, then fine-tune it with the up/down keys. Touch and hold up or down to change the value faster.
3. Touch the check mark. The pump returns to the Flow screen and shows the new flow.

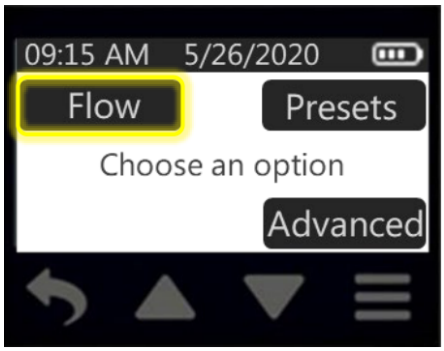


Figure 19. The **Sample** menu.

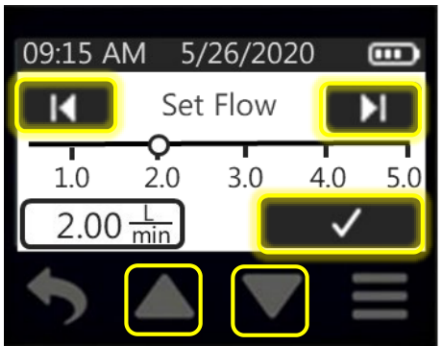


Figure 20. The **Set Flow** screen.

Verification at 1 to 5 L/min

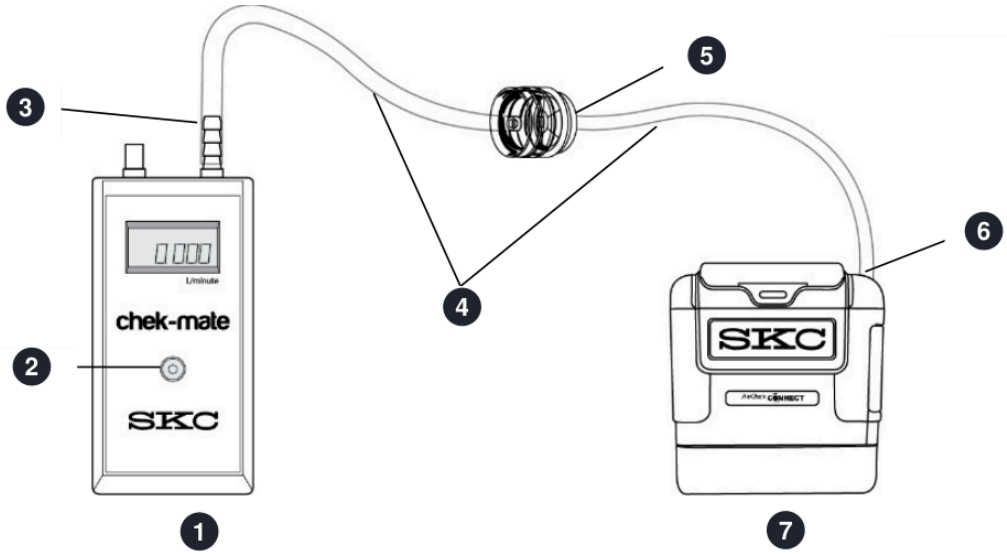


Figure 21. Flow rate verification train for 1 to 5 L/min.
1 Flowmeter with traceable calibration (chek-mate shown) · **2** Flowmeter on/off button · **3** Suction port · **4** Tubing · **5** Representative sample medium · **6** Pump inlet · **7** Pump

1. Switch the pump on, and prepare the flowmeter as its instructions describe.
2. Set up the verification train with a representative sample medium in line, as in Figure 21.

3. Set the flow rate your method specifies (see Setting the flow rate (p. 19)).
4. On the Flow screen (**Menu › Sample › Flow**), touch **Adjust Flow**. The pump starts. Let it run for 5 to 15 minutes before you read the flowmeter.
5. Adjust the flow with the up/down keys until the flowmeter shows the required flow. The adjustment value appears next to the Adjust Flow symbol; the reading on the flowmeter changes with it.
6. Touch the check mark to save the adjustment and return to the Flow screen. The flow rate shown on the pump stays at the set value.
7. Disconnect the flowmeter and the representative sample medium, and continue with Sampling (p. 24).

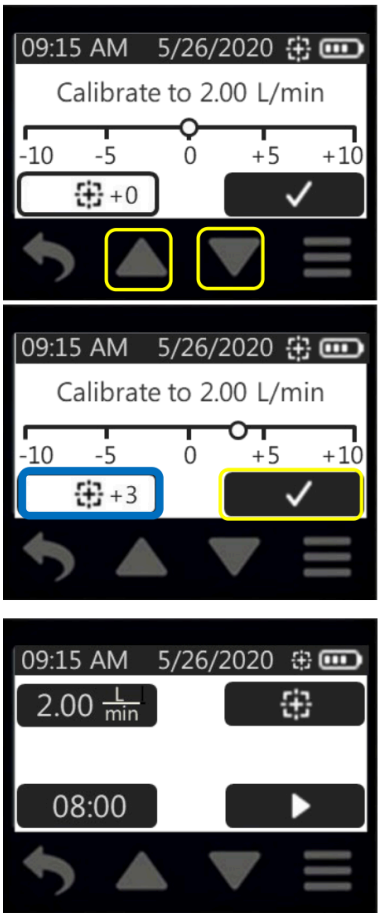


Figure 22. Adjusting the flow during verification: adjust with the up/down keys, save with the check mark; the Flow screen still shows the set flow rate.

Verification at 5 to 500 mL/min

For flows from 5 to 500 mL/min the pump runs at a higher flow in constant flow mode, and an adjustable tube holder sets the flow through each sorbent tube: you adjust it with the brass screw beneath the tube's port.

- **One tube:** All-in-One adjustable tube holder (included in Low Flow Kit 210-500).
- **Several tubes:** Dual, Tri or Quad Adjustable Low Flow Tube Holder with a Constant Pressure Controller (CPC). For details of these holders and the CPC, see their own operating instructions.

Preparing the tubes and the pump

1. Decide how many tubes, and of which type, you need for verification and sampling. Break the tips off the representative tube(s) for the pre-sample verification. For multi-tube sampling, label the tubes.

2. Switch the pump on, prepare the flowmeter, and connect the flowmeter's suction port to the pump inlet with flexible tubing.
3. Set the pump flow (see Setting the flow rate (p. 19)):
   - one tube: **1.5 L/min**;
   - several tubes: the sum of all tube flows plus 15 %.
4. Disconnect the tubing from the pump inlet.

> **Note**
> For multi-tube sampling, do not set more than 500 mL/min through any one tube.

Preparing the tube holder

1. Push an opened representative tube into the rubber sleeve of a port, with the arrow on the tube pointing towards the pump. For several tubes, repeat for each port you will sample with.
2. Several tubes only: seal every unused port with an unopened tube, and label the ports to match the tube labels.
3. With a small flat-blade screwdriver, turn the brass flow adjust screw beneath the (first) active port anticlockwise.
4. Connect the flowmeter to the tube — for several tubes, to the first one — as in Figure 23 or Figure 24.

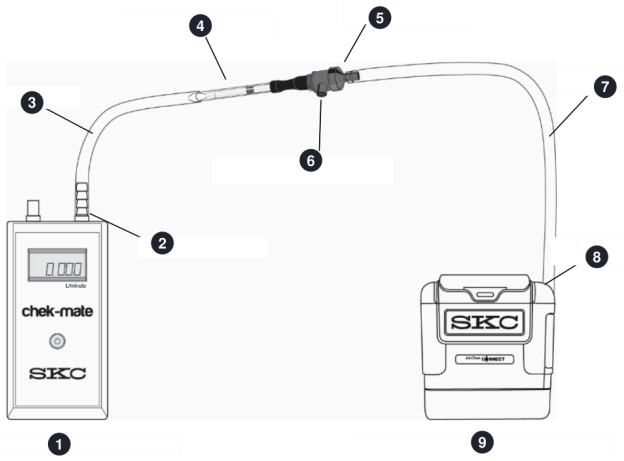


Figure 23. Verification train for one sorbent tube, 5 to 500 mL/min, constant flow mode.
1 Flowmeter · **2** Suction port · **3** Tubing · **4** Sorbent tube · **5** All-in-One holder · **6** Flow adjust screw · **7** Tubing · **8** Pump inlet · **9** Pump

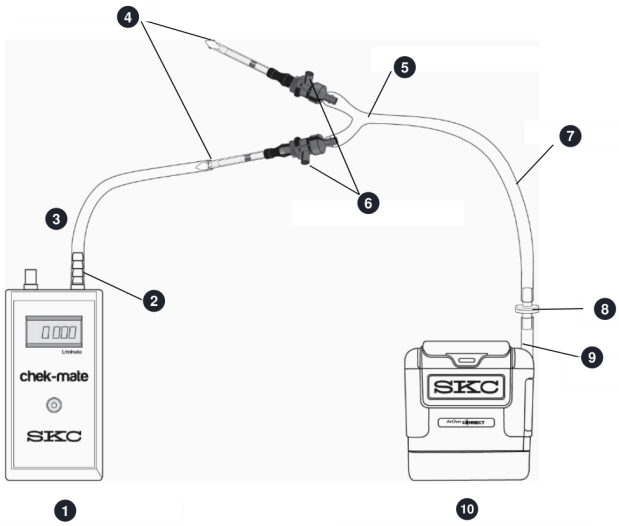


Figure 24. Verification train for several sorbent tubes, 5 to 500 mL/min, constant flow mode (dual holder shown).
1 Flowmeter · **2** Suction port · **3** Tubing · **4** Sorbent tubes · **5** Dual adjustable low flow holder · **6** Flow adjust screws · **7** Tubing · **8** Constant Pressure Controller (CPC) · **9** Pump inlet · **10** Pump

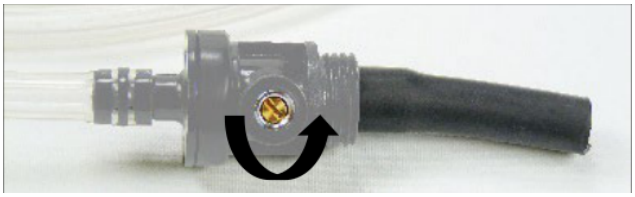


Figure 25. All-in-One holder: turn the brass flow adjust screw beneath the port anticlockwise.



Figure 26. Dual, tri or quad holder: push the tube into the rubber sleeve of the port, arrow toward the pump.

Adjusting the flow

1. On the Flow screen, touch **Run** to start the pump, and let it run for 5 to 15 minutes.
2. Turn the flow adjust screw of the port clockwise to reduce the flow, or anticlockwise to increase it, until the flowmeter shows the flow your method specifies.
3. Several tubes: move the flowmeter tubing to the next active tube, open its flow adjust screw anticlockwise, and repeat step 2. Do this for every active tube.
4. Check the flow once more before you remove the representative tube(s). Any correction should be small.
5. Stop the pump and return to the Flow screen.
6. Disconnect the flowmeter, replace each representative tube with a freshly opened, unexposed tube of the type your method specifies, and continue with Sampling (p. 24).

Verification in constant pressure mode, 100 to 1000 mL/min

In constant flow mode the pump measures the flow directly and holds it at the set value. In constant pressure mode it holds the set *inlet pressure* for the whole sample instead, and the flow follows from that pressure and the resistance of the sampling train: a higher pressure gives a higher flow. As long as the resistance of the sampling train does not change during the sample, the flow stays constant.

Constant pressure mode works with single- and multiple-tube holders, without an All-in-One holder or CPC; for flows down to 100 mL/min a single tube can sometimes be connected straight to the pump. Use constant flow mode for flows above 1000 mL/min; constant pressure mode can still be used up to 5 L/min if the pressure drop does not exceed 20 in. H_2O. The pressure drop across the sampling train must lie between 1 and 20 in. H_2O.

> **Note**
> In constant pressure mode the pump does not work without a sample medium on its inlet: with no medium, or too little resistance, it goes into fault. Connect the tube or other medium before you set the pressure.

Setting the pressure

1. Connect the sorbent tube or other sample medium to the pump inlet (Figure 29).
2. Touch **Menu** › **Sample** › **Advanced**. The Constant Pressure screen appears; touch the pressure display.

3. Set the pressure roughly with the left/right arrows and fine-tune it with the up/down keys. While the pump works towards the set pressure, the value flashes and the left LED flashes yellow-orange; once the pressure is reached — which can take up to 90 seconds — the value stops flashing and the LED turns green.
4. Touch the check mark to return to the Constant Pressure screen.

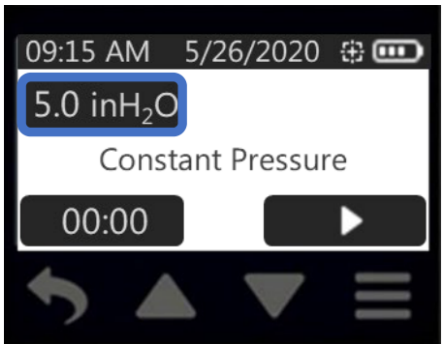


Figure 27. The **Constant Pressure** screen (**Menu › Sample › Advanced**).

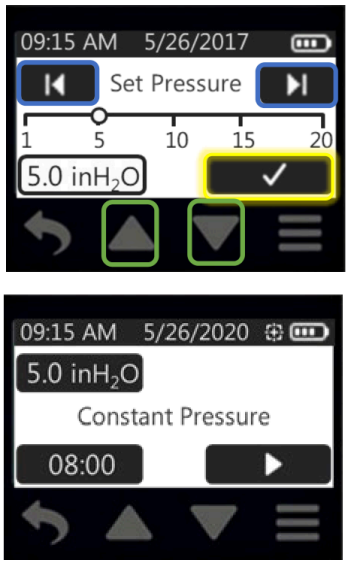


Figure 28. Setting the pressure: the **Set Pressure** screen (top) and the new setting on the **Constant Pressure** screen (bottom).

Setting up the verification train

Prepare the pump and the tubes as for constant flow mode (see Preparing the tubes and the pump (p. 20)). Then connect the flowmeter with tubing to the single sorbent tube, or to the first of several tubes, as in Figure 29 or Figure 30.

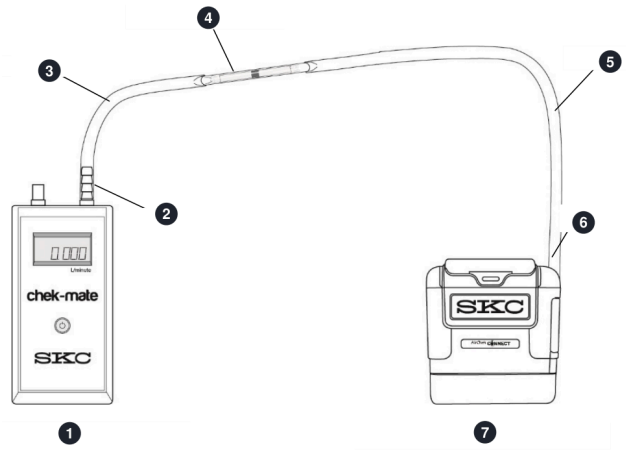


Figure 29. Verification train for one sorbent tube, 100 to 1000 mL/min, constant pressure mode.
1 Flowmeter · **2** Suction port · **3** Tubing · **4** Sorbent tube · **5** Tubing · **6** Pump inlet · **7** Pump

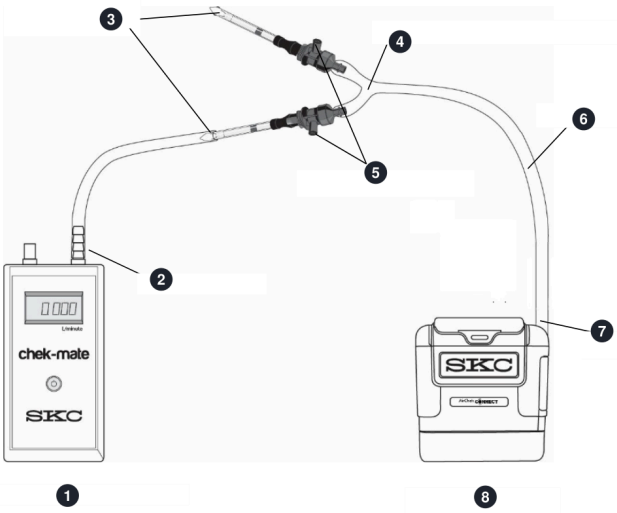


Figure 30. Verification train for several sorbent tubes, 100 to 1000 mL/min, constant pressure mode (dual holder shown).
1 Flowmeter · **2** Suction port · **3** Sorbent tubes · **4** Dual adjustable low flow holder · **5** Flow adjust screws · **6** Tubing · **7** Pump inlet · **8** Pump

One tube

1. On the Set Pressure screen, change the inlet pressure with the left/right arrows and the up/down keys until the flowmeter shows the required flow. More pressure gives more flow, less pressure less flow.
2. Touch the check mark. The Constant Pressure screen shows the new pressure.
3. Disconnect the representative tube from the flowmeter, replace it with a freshly opened, unexposed tube of the type your method specifies, and continue with Sampling (p. 24).

If the required flow cannot be reached anywhere between 1 and 20 in. H_2O, use a single low flow tube holder and follow the procedure below.

Single or multiple low flow tube holders

If you do not know the pressure needed for the required flows, set the pressure to 20 in. H_2O and start the pump. Then set the flow through each tube with the holder's flow adjust screws, exactly as in Adjusting the flow (p. 22).

Sampling

The pump runs a sample in one of three ways: manually, started and stopped by you; timed, where the pump stops itself after a set duration; or from a preset programmed in DataTrac Pro, optionally with a delayed start. Each works in constant flow or in constant pressure mode.

Before you sample

- Charge the battery completely, and let the pump adjust to the ambient temperature if it has come from a much colder or warmer place.
- Verify the flow through the sampling train (see Verifying the flow rate (p. 18)) — before and after each sample.
- Remove the flowmeter and its tubing, and replace the representative sample medium with a freshly opened, unexposed medium of the type your method specifies (Figure 31).
- The pump can sample while standing in a powered charging cradle — but never in a hazardous location (see Hazardous locations (p. 6)).

⚠ WARNING

An unapproved battery or charging cable can damage the pump. Powering the pump from any device — a charging cradle included — or from any battery pack other than P75718 or P75718A voids the intrinsic-safety certifications and the warranty. In a hazardous location, the pump can then ignite an explosive atmosphere. In a hazardous location, run the pump only on battery pack P75718 or P75718A.

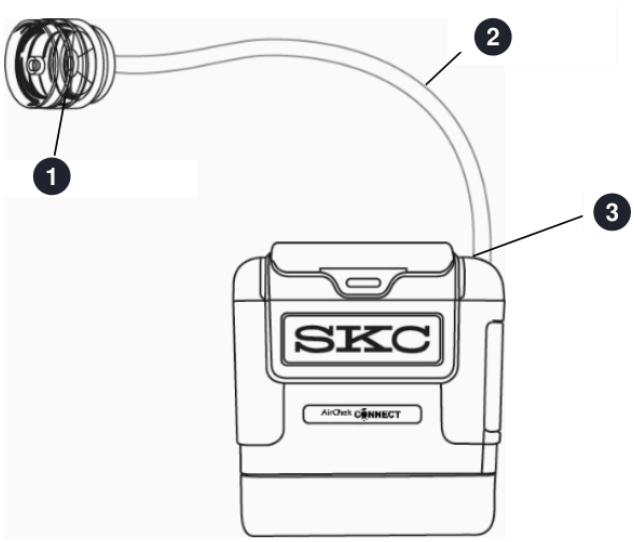


Figure 31. High flow sampling train (filter cassette shown).
1 Sample medium · **2** Tubing · **3** Pump inlet

Manual sample

1. Set up the sampling train as in Figure 31, with fresh medium.
2. Touch **Menu** › **Sample**, then **Flow** for constant flow or **Advanced** for constant pressure.
3. Touch **Run** to start the sample.
4. When the sampling period is over, touch **Stop**. The pump shows the Sample Summary and resets the accumulated data on the screen.
5. Fit the representative medium again and verify the flow after sampling (post-sample flow rate verification).

> **Note**
> If the pump is switched off, or switches itself off, after a sample, it shows the Sample Summary of that sample when it is next switched on.

While the pump is running

To…	Do this
End the sample	Touch **Stop**. The accumulated data on the screen resets and the Sample Summary appears.
Pause the sample	Touch **Pause**. The accumulated data stays on the screen, and the button changes to **Run**.
Resume the sample	Touch **Run**. Sampling and data accumulation continue.
Lock (and dim) the screen	Press the on/off button on the side of the pump. With Auto Lock on, the screen locks by itself when the sample starts; with Dim on, the locked screen is also dimmed.
Unlock the screen	Press the on/off button. With Secure Lock on, then enter the passcode on the keypad (see Switching Secure Lock on or off (p. 17)).

The screen settings are described in Screen: Dim, Auto Lock and Secure Lock (p. 16). If a restriction in the airflow — kinked tubing, for example — is not corrected and the pump can no longer hold the flow, it enters flow-fault mode (see Flow faults (p. 28)).

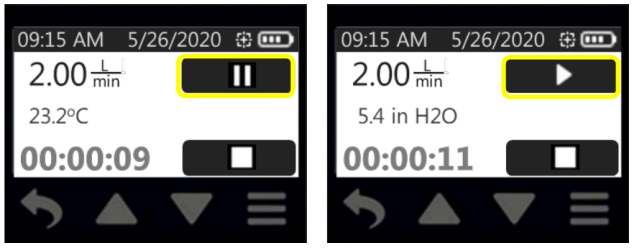
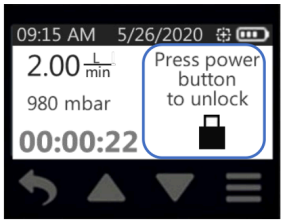


Figure 32. Pausing a sample: **Pause** changes to **Run**.



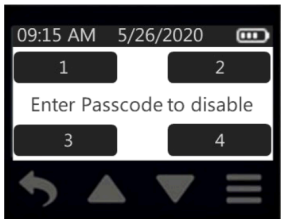


Figure 33. Locked screen with Auto Lock (top) and the passcode keypad with Secure Lock (bottom).

Timed sample

A timed sample stops itself after the duration you set, in hours and minutes.

1. Touch **Menu** › **Sample**, then **Flow** or **Advanced**.
2. Touch the duration button (it shows **00:00**). The first hour digit flashes.
3. Set the digit with the up/down keys, touch the right arrow to move to the next digit, and continue through the minutes. Touch the check mark to save the duration.
4. Connect the sampling train (Figure 31).
5. Touch **Run**. When the duration has elapsed, the pump stops by itself, shows the Sample Summary and resets the accumulated data.
6. Verify the flow after sampling with the representative medium.

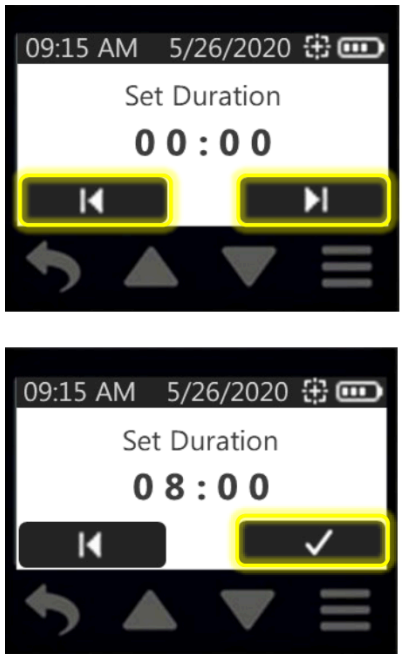


Figure 34. Setting the duration on the **Set Duration** screen.

Presets

Presets **P1** to **P4** are sample programs that you create in DataTrac Pro and upload to the pump (see Using the pump with a PC (p. 30)). A preset can include a delayed start. On the pump you can still move the start of a delayed preset to a later day, and verify the flow from the preset screen.

> **Note**
> To move a delayed start, touch the start date button on the preset screen before you activate it, change the day with the up/down keys and touch the check mark. Only a later day can be chosen.

1. Connect the sampling train (Figure 31).
2. Touch **Menu** › **Sample** › **Presets**, then the preset you want.
3. **Preset with delayed start:** touch the check mark to activate the preset. The pump shows a summary of the active preset and an **X** button; touch **X** if you want to cancel the preset.
   Preset without delayed start: touch **Run** on the preset screen.
4. When the programmed sample has finished, the pump stops by itself, shows the Sample Summary and resets the accumulated data.

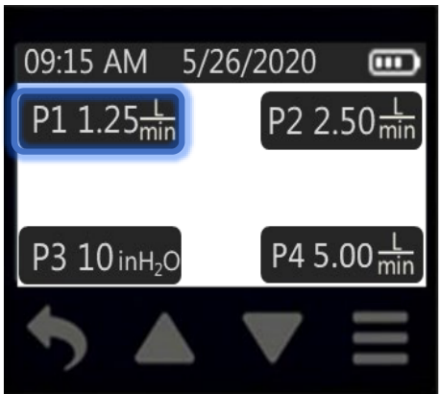


Figure 35. The **Presets** screen.

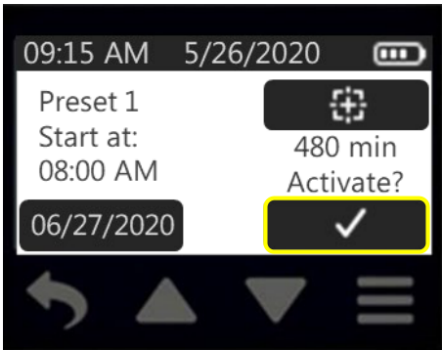
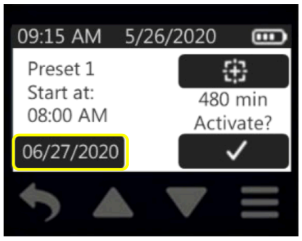


Figure 36. A preset with a delayed start, ready to activate.



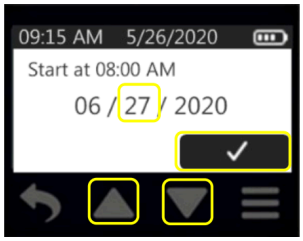


Figure 37. Moving a delayed start to a later day.

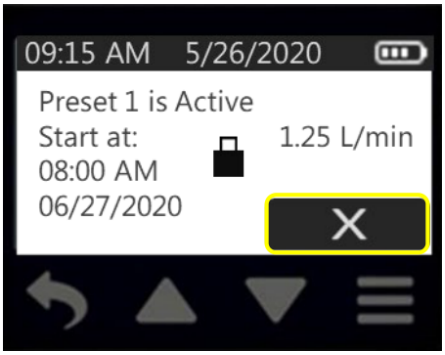


Figure 38. An active preset; **X** cancels it.

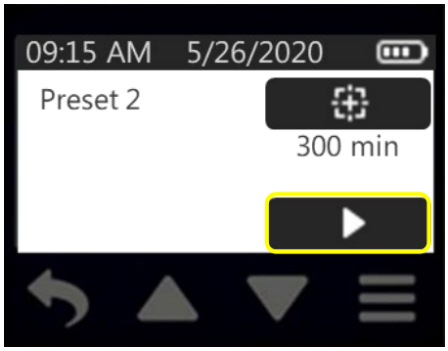


Figure 39. A preset without a delayed start: touch **Run**.

Flow faults

An overloaded sample medium or kinked tubing restricts the airflow, and the back pressure rises. When the pump can no longer hold the flow within ±5 % of the set point for 3 to 10 seconds, it goes into flow-fault mode:

1. The pump stops, the status LEDs flash red, and the elapsed time stops. An exclamation mark appears next to the flow rate (Figure 40, left).
2. After 20 seconds in fault, the pump tries to restart, up to 5 times. If full airflow returns, the sample continues.
3. If full airflow does not return within the 5 attempts (5 minutes), the pump ends the sample and shows the Sample Summary with the number of faults (Figure 40, right). The LEDs keep flashing red, more and more slowly.
4. Touch any button to clear the fault. A fault is also cleared when the battery runs flat.

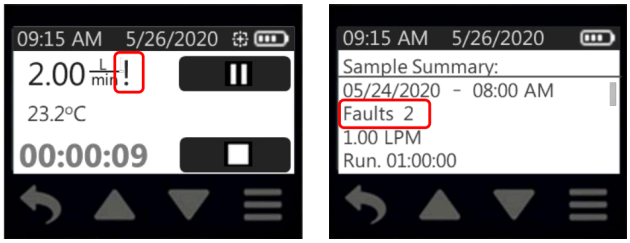


Figure 40. Left: flow fault — exclamation mark next to the flow rate. Right: Sample Summary of a sample ended by flow faults, with the number of faults.

Check for kinked tubing and an overloaded or blocked medium before you sample again. The run data up to the fault is kept in the sample history (p. 28).

Sample history and pump information

Sample history

When a sample ends, the pump shows its Sample Summary and keeps it in the history. To review earlier samples on the pump:

1. Touch **Menu › Device › History**. The pump lists the sample runs by date and start time.
2. Scroll to a run with the up/down keys and touch the check mark.
3. Scroll through the summary of that run — date and start time, number of faults, flow rate, run time — with the up/down keys.

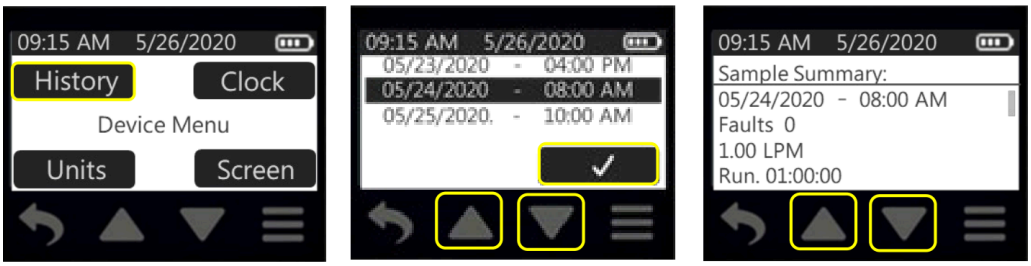


Figure 41. Viewing the history: **History**, choose a run, scroll through its summary.

> **Note**
> The pump shows the summaries of the last 16 sample runs. Its memory holds up to 4416 data entries — about 70 hours of one-minute averages, or 360 hours of five-minute averages. To see the full data, upload it to DataTrac Pro on a PC.

Pump information

Touch **Menu** › **Info** to display the firmware version, the lifetime run time and volume, the serial number and the date of manufacture. Have this information at hand when you contact Analyt-MTC about the pump.

CHAPTER 5

Communication

Using the pump with a PC

The AirChek Connect talks to a PC over Bluetooth low energy. On the PC you need the USB Bluetooth Adapter (Cat. No. 877-94; one is included in the multi-pump kits) and the free software DataTrac Pro for Bluetooth-connected Pumps (DataTrac Pro for short). With it you program the presets P1 to P4 and upload them to the pump, and download the sample data from the pump's memory.

1. Check that the PC meets the system requirements of DataTrac Pro.
2. Install the USB Bluetooth Adapter on the PC as described in the instructions supplied with it.
3. Download the DataTrac Pro installer from the address given in the adapter instructions, and install it on the PC.
4. When installation is complete, DataTrac Pro starts by itself and looks for AirChek Connect pumps that are switched on within range.

Installation and operation of the software are described in the DataTrac Pro for Bluetooth-connected Pumps user manual; ask Analyt-MTC for it.

CHAPTER 6

Maintenance

You may replace four external parts yourself: the battery pack, the screen cover, the belt clip and the inlet filter with its housing. Use only the original spare parts listed in Spare parts (p. 37). All other service is arranged through Analyt-MTC (see What you may service yourself (p. 7)).

Replacing the battery pack

You need a 2.5 mm hex key (Allen key) and, for a replacement, a new battery pack P75718 (P75718A is also approved).

WARNING

Removing or replacing the battery pack in a hazardous location can ignite an explosive atmosphere. This can cause an explosion. Remove and replace the battery pack only in an area known to be non-hazardous. Read the warnings in Hazardous locations (p. 6) and Battery pack (p. 6) first.

Note

Switch the pump off and remove all tubing and sample media before you take off the battery pack.

1. Switch the pump off with the on/off button.
2. Loosen the two screws on the bottom of the battery housing with the hex key, and pull the battery pack away from the pump case.
3. If you are fitting a new pack, dispose of the old one promptly according to local regulations. Do not take it apart and do not put it in a fire.
4. Align the battery pack with the bottom of the pump case: the connector on top of the pack must meet the protruding contacts of the power control board on the bottom of the case.
5. Press the two parts together until they sit snugly. The screen shows a 20-second countdown while the pump sets the zero point of its flow sensor.
6. Tighten the two screws with the hex key, alternating between them.
7. Charge a new battery pack completely before use. A pack you have re-fitted must be at least 25 % charged — two bars on the battery symbol at switch-on (see Commissioning (p. 12)).

Replacing the screen cover

1. Remove the two screws from the top of the screen cover's mounting block, and lift off the cover with the block.
2. Press the mounting block onto the posts of the new cover, with the underside of the block facing up and its straight edge facing away from the cover. Swing the block away from the cover until it stops against the cover's inside edge.
3. Line up the cover and block with the holes in the top of the belt clip and pump case.
4. Insert the two screws through the block into the belt clip and tighten them gently until snug.
5. Check that the cover closes properly.

Replacing the belt clip

> **Note**
> Do not remove the two lower hex nuts from the main case, and make sure the hex nut in the top of the case does not fall out while the clip is off.

1. Remove the screen cover: take out the two screws from the top of the mounting block and lift off the cover with the block.
2. Remove the screw from the bottom of the belt clip and pull it out through the opening in the clip.
3. Lift the belt clip away from the pump.
4. Push the new belt clip into place until it fits snugly.
5. Insert the belt-clip screw through the opening in the clip into the pump case. Tighten it only until it engages — not fully yet.
6. Refit the screen cover: line up the two holes of the mounting block with the holes in the top of the belt clip, insert the two screws and tighten them until snug. Check that the cover closes properly.
7. Now tighten the screw under the belt clip until snug.

Replacing the inlet filter or inlet housing

1. Remove the four screws from the inlet housing (9 in Figure 1 (p. 8)) and pull the housing away from the pump.
2. Remove the O-ring and the filter.
3. Place the new or existing filter and the O-ring in the inlet recess. The O-ring must lie completely flat.
4. Line up the inlet housing with the recess and insert the four screws. Tighten them only until the gap between housing and pump has closed.

CHAPTER 7

Troubleshooting

Problems and remedies

Problem	Remedy
The pump does not respond to touch, or the screen shows unusual characters.	Remove the battery pack and fit it again (see Replacing the battery pack (p. 31); work in a non-hazardous area). If the problem persists, contact Analyt-MTC.
The history records look irregular.	Delete the pump memory with DataTrac Pro (see Using the pump with a PC (p. 30)). Upload any data you need first.
The pump stopped during a sample; an exclamation mark is shown next to the flow rate, or the LEDs flash red.	Flow fault — see Flow faults (p. 28). Check for kinked tubing and an overloaded or blocked sample medium.
The LEDs flash alternately red and green.	The flow is out of tolerance: the pump is about to enter flow-fault mode, or is trying to restart. Check the tubing and the sample medium.
The pump stopped and switched off during a sample; a fault symbol appears at switch-on.	Low battery. Charge the battery (see Commissioning (p. 12)). The run data is kept in the history.
The pump goes into fault as soon as it starts in constant pressure mode.	No sample medium on the inlet, or too little resistance. Connect the medium before setting the pressure (see Verification in constant pressure mode, 100 to 1000 mL/min (p. 22)).
The screen does not accept input during a sample.	The screen is locked. Press the on/off button; with Secure Lock on, enter the passcode (see Switching Secure Lock on or off (p. 17) for the master unlock).

If none of these remedies helps, contact Analyt-MTC (see Service, warranty and contacts (p. 38)). Do not open the pump: beyond the parts in Maintenance (p. 31), repairs are service work.

CHAPTER 8

Specifications

Flow and performance

Pump type	Type P, for personal sampling of airborne particles according to ISO 13137:2022
Flow range, constant flow	1000–5000 mL/min 5–500 mL/min with an adjustable low flow tube holder
Back pressure (pressure drop), constant flow	5000 mL/min at 20 in. H_2O (0–5 kPa) 4000 mL/min at 30 in. H_2O (0–7.5 kPa) 3000 mL/min at 40 in. H_2O (0–10 kPa) 2000 mL/min at 50 in. H_2O (0–12.5 kPa) 1000 mL/min at 60 in. H_2O (0–15 kPa)
Constant pressure mode	Inlet pressure 1–20 in. H_2O; typically 100–1000 mL/min
Flow control	Isothermal; corrects for changes in back pressure, temperature and atmospheric pressure
Flow fault	After 3–10 seconds of restricted flow the pump stops; after 20 seconds it attempts up to 5 restarts; if the airflow is not restored within 5 minutes, the sample ends
Flow accuracy	Flow control ±5 % of set point
Sound level	51.7 dB average at 3 ft (1 m), with a 37 mm, 0.8 µm mixed cellulose ester (MCE) filter cassette
Sample media	Sorbent tubes, filters, size-selective particulate samplers, impingers

Power

Battery	Removable, rechargeable Li-Ion battery pack: 7.2 V, 3.3 Ah, 24 Wh (approved packs P75718 and P75718A)
Mains operation	From a powered charging cradle; run time unlimited
Operating time on battery	8 h or more at 2000 mL/min against 16 in. H_2O (4 kPa) back pressure 8 h or more at 5000 mL/min against 20 in. H_2O (5 kPa) back pressure 40 h or more at 2000 mL/min* 15 h or more at 5000 mL/min*
Charging	In a charging cradle: one cradle with Single Cradle Power Supply 220-600, or up to 5 chained cradles with Multi Cradle Power Supply 220-700; power supplies 100–240 V
Charging time	Approx. 3 hours, depending on battery capacity and state of discharge
Charging limits	Maximum charge input voltage U_m = 12 V; battery pack evaluated for max. 8.4 V DC and 1 A charging

* Measured with a new pump and battery and a 37 mm, 0.8 µm MCE filter. Run time in use may differ.

Operating conditions

Temperature	Operating 32–104 °F (0–40 °C) · charging 32–113 °F (0–45 °C) · storage −4 to 113 °F (−20 to 45 °C)
Humidity	Operating and storage up to 95 % RH, non-condensing
Altitude	Flow corrected for temperature (32–104 °F [0–40 °C]) and ambient pressure up to 15000 ft (4572 m) above and down to 4500 ft (1372 m) below sea level

Display and interface

Display	High-contrast backlit liquid crystal display (LCD): time, date, battery status, flow rate, sample volume, temperature, atmospheric pressure, back pressure, remaining time of a programmed run, elapsed run time
User interface	Capacitive touch screen with eight touch zones, dimming and locking
Status LEDs	Dual LEDs: flashing green = running; flashing red = flow fault
Sensor accuracy	Atmospheric pressure ±0.3 inHg · temperature ±1 °C · time ±0.002 %
PC communication	Bluetooth low energy, with DataTrac Pro and USB Bluetooth Adapter 877-94
Data memory	Up to 4416 data entries; summaries of the last 16 sample runs on the pump

Mechanical

Dimensions	4.1 × 3.7 × 2.8 in (10.4 × 9.4 × 7.1 cm)
Weight	19.4 oz
Case	Polycarbonate with rubberised anti-static overmoulding; belt clip; ultra-quiet operation
Ingress protection	IP6X, dust-tight enclosure
Tubing	1/4 in. inside diameter

Certifications

Intrinsic safety	Cat. No. 220-4000 with battery pack P75718 or P75718A: 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; −20 °C ≤ Ta ≤ 45 °C Ex II 1G Ex ia IIC T4 Ga; IECEx UL 19.0100; DEMKO 19ATEX 2288; UL22UKEX2351
Listing and marks	cULus Listed, E62011 · CE 0539 · UKCA 0843
Standards	Designed to meet ISO 13137:2022 · RoHS compliant

The certification applies only under the conditions in Safety (p. 6). The charging cradles are not covered by it.

CHAPTER 9

Ordering information

Order from Analyt-MTC with the order codes.

Use only these original parts: the UL listing for intrinsic safety holds only with approved parts, and other parts void the warranty. For any other version, contact Analyt-MTC.

Pump and kits

Description	Order code
Pump only; needs a charging cradle and a power supply	220-4000
Starter pump kit	Ask Analyt-MTC
Single high flow pump kit	Ask Analyt-MTC
3-pack high flow pump kit	220-4000-K3
5-pack high flow pump kit	Ask Analyt-MTC

Charging and data accessories

Description	Order code
Standard Charging Cradle; needs a power supply	220-800
Single Cradle Power Supply, for one cradle, 100–240 V	220-600
Multi Cradle Power Supply, for 2–5 chained cradles, 100–240 V	220-700
DataTrac Pro USB Bluetooth Adapter; needed to download and use the free DataTrac Pro software	877-94

Flow rate verification and sampling accessories

Description	Order code
Medium Flow chek-mate Flowmeter, 0.50–5 L/min; includes 9 V battery; with a calibration certificate traceable to UK standards. With a certificate traceable to ISO standards: 375-0550S; to NIST standards: ask Analyt-MTC.	375-0550 (UK) 375-0550S (ISO)
Low Flow Kit, 5–500 mL/min: All-in-One adjustable tube holder and Type A protective tube cover	210-500
Constant Pressure Controller (CPC), for multiple-tube sampling in constant flow mode	224-26-CPC
Protective pouch, black nylon, with adjustable waist belt and shoulder strap	224-911

Spare parts

Description	Order code
Replacement battery pack, Li-Ion (the battery packs approved for the pump are listed under Safety)	P75718A P75718
Belt clip	P51824
Inlet	P20423
Inlet filter and O-rings, pack of 3	P4001
Screen cover	P20422

Note
A repaired or rebuilt battery pack voids the warranty. Replace a worn pack with a new P75718.

CHAPTER 10

Service, warranty and contacts

Analyt-MTC is your contact for everything concerning the AirChek Connect: technical questions, spare parts and accessories, repairs and warranty claims. Any work beyond the user tasks in Maintenance (p. 31) — including anything inside the pumping compartment — is service work; contact Analyt-MTC. Repairs must be done by the manufacturer's authorised service to keep the pump's performance and its intrinsic-safety rating.

Contact

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Before you contact Analyt-MTC

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

- the serial number and firmware version from Menu › Info (see Pump information (p. 29));
- what happened, and the related Sample Summaries from the sample history (p. 28).

Returning a pump

Before you send a pump for repair or under warranty, ask Analyt-MTC how to return it and what to include. The pump contains a lithium-ion battery, so the shipping rules below apply.

Shipping lithium-ion batteries

The pump's Li-Ion battery packs have passed the tests of the UN Manual of Tests and Criteria, Part III, subsection 38.3, and are rated below 100 Wh. Pumps and battery packs are nevertheless subject to the special shipping regulations for lithium batteries (UN 3480 and UN 3481). Ask your carrier before you ship them.

Warranty

Make warranty claims to Analyt-MTC; Analyt-MTC's terms apply. The warranty is void if the warnings, notes and cautions in this manual are not followed, and in particular if:

- the pumping compartment has been opened by the user;
- an unapproved battery, charging cradle, charging cable or other part has been used;

- a repaired or rebuilt battery pack has been used.

Disposal

Do not dispose of the pump with household waste. Dispose of it as electrical and electronic equipment under local regulations (WEEE). Remove batteries first where fitted and dispose of them separately.

ANALYT-MTC Messtechnik GmbH

Sales, service and calibration

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