ANALYT MESSTECHNIK



OPERATING MANUAL

SKC chek-mate Flowmeter

Checking and setting the flow rate of air sample pumps with the chek‑mate flowmeter, 20 mL/min to 30 L/min, including CalChek automatic verification and calibration, battery care and recalibration.

AMTC-MN-0020

About this manual

The SKC chek-mate® is a hand-held flowmeter for checking and setting the flow rate of air sample pumps. It comes in three models — low flow (20–500 mL/min), medium flow (0.5–5 L/min) and high flow (5–30 L/min) — and is also sold as the chek-mate Calibrator. The air sample pump draws air through the chek-mate, which shows the volumetric flow rate at the current ambient conditions.

This manual explains how to check a pump's flow rate by hand, how the medium and high flow models verify and calibrate CalChek-ready pumps automatically, how to look after the chek-mate, and how to have the chek-mate itself recalibrated. The technical data and the order numbers of accessories are at the end.

Read Safety (p. 5) before you use the chek-mate for the first time. For a first flow check, continue with Product description (p. 6) and Operation (p. 9). Analyt-MTC supplies, services and supports the chek-mate; for questions, repairs and recalibration see Service, warranty and contacts (p. 18).

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

Abbreviations

Abbreviation	Meaning
AVE	Average Display function on (display message)
ID	Inside diameter (tubing)
IP40	Ingress protection rating of the case
NiMH	Nickel-metal hydride (rechargeable battery)
NIST	US National Institute of Standards and Technology

How this manual marks information

NOTICE

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

Note
Information that helps understanding; never a hazard.

Messages on the chek-mate display are written in quotation marks, as they appear: "On", "LOW BATTERY", "AVE".

Document information

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Manufacturer	SKC Inc.

Revision history

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 chek-mate for the first time. The chek-mate is a measuring instrument: most of the rules below protect the accuracy of its reading, the rest protect the instrument and its battery. Follow them every time you use it.

Intended use

The chek-mate is a hand-held flowmeter for checking and setting the flow rate of air sample pumps. It comes in three models for low, medium and high flow rates (see Specifications (p. 16)). The air sample pump draws air through the chek-mate by suction.

With a CalChek-ready pump, the medium and high flow models also verify and calibrate the pump's flow automatically (CalChek). Use the chek-mate only as this manual describes.

Where and how to use it

NOTICE

Temperature changes, sunlight, water, liquid and dust can affect the chek-mate. They can damage it or give a wrong flow reading. Let the chek-mate adjust to the temperature of the place where you use it for at least 10 minutes before you measure, especially after moving it from a very cold or very warm place. Keep it out of direct sunlight, which heats the case. The case is rated IP40: it is neither waterproof nor splash-proof. Do not use the chek-mate where water can get into the case. Never let liquid get into the inlet or the outlet. Avoid long use in air with a high dust load. Where you cannot avoid it, fit an external filter to the inlet that collects most dust particles and adds little back pressure. There is no such filter among the chek-mate accessories.

Battery

NOTICE

A deeply discharged alkaline battery can leak electrolyte, even a good one. The electrolyte corrodes the battery terminals and the circuit board. Use only the battery types given in Power (p. 16): a 9 V alkaline battery or an 8.4 V NiMH rechargeable battery. Do not leave a discharged battery in the battery compartment. Take the battery out when you will not use the chek-mate for a long time.

Do not open the case

Apart from the battery, there is nothing inside the chek-mate that you can service yourself. An anti-tamper label on the case shows when the case has been opened.

NOTICE

Apart from the battery, the chek-mate has no parts that you can service yourself. Opening the case voids the warranty and can change the calibration of the instrument. Do not open the case. For any repair, contact Analyt-MTC (see Service, warranty and contacts (p. 18)).

The warranty also lapses if the cautions in this chapter and in Maintenance (p. 15) are not followed.

CHAPTER 2

Product description

Models

The chek-mate comes in three models. Each model exists in three versions that differ only in the calibration certificate supplied: the suffix N stands for a certificate traceable to NIST standards, the suffix S for one traceable to ISO standards, and no suffix for one traceable to UK standards.

Model	Flow range	Accuracy	CalChek
High flow	5–30 L/min	±1 % of reading at 5–30 L/min	yes
Medium flow	0.5–5 L/min	±1 % of reading at 0.75–5 L/min; 2.5 % of reading at 0.5–0.75 L/min	yes
Low flow	20–500 mL/min	±1 % of reading at 50–500 mL/min; 2.5 % of reading at 20–50 mL/min	no

The medium and high flow models have a CalChek serial interface. With it, the chek-mate passes its readings to a CalChek-ready pump whose flow lies in the chek-mate's range, and the pump verifies its flow at one point (CalChek single) or calibrates itself over several points (CalChek full) without your intervention. See CalChek automatic verification and calibration (p. 12).

Checking the contents

Each flowmeter is delivered with a 9 V alkaline battery and a traceable calibration certificate. The kits add the pulsation dampener that the model needs. Check the delivery against the table; if anything is missing, contact Analyt-MTC (see Service, warranty and contacts (p. 18)).

Order code	Contents
FLOWMETERS	
375-50300N	High flow flowmeter, 5–30 L/min, with 9 V alkaline battery and NIST-traceable calibration certificate
375-50300	High flow flowmeter, 5–30 L/min, with 9 V alkaline battery and UK-traceable calibration certificate
375-50300S	High flow flowmeter, 5–30 L/min, with 9 V alkaline battery and ISO-traceable calibration certificate
Ask Analyt-MTC	Medium flow flowmeter, 0.50–5 L/min, with 9 V alkaline battery and NIST-traceable calibration certificate
375-0550	Medium flow flowmeter, 0.50–5 L/min, with 9 V alkaline battery and UK-traceable calibration certificate
375-0550S	Medium flow flowmeter, 0.50–5 L/min, with 9 V alkaline battery and ISO-traceable calibration certificate
Ask Analyt-MTC	Low flow flowmeter, 20–500 mL/min, with 9 V alkaline battery and NIST-traceable calibration certificate
375-00205	Low flow flowmeter, 20–500 mL/min, with 9 V alkaline battery and UK-traceable calibration certificate
375-00205S	Low flow flowmeter, 20–500 mL/min, with 9 V alkaline battery and ISO-traceable calibration certificate
KITS	
375-50300-KN	High flow kit, 5–30 L/min: flowmeter, 9 V alkaline battery, NIST-traceable calibration certificate, Pulsation Dampener 375-150
375-50300-KNS	High flow kit, 5–30 L/min: flowmeter, 9 V alkaline battery, ISO-traceable calibration certificate, Pulsation Dampener 375-150
375-0550-KN	Medium flow kit, 0.50–5 L/min: flowmeter, 9 V alkaline battery, NIST-traceable calibration certificate, Pulsation Dampener 375-100
375-0550-KNS	Medium flow kit, 0.50–5 L/min: flowmeter, 9 V alkaline battery, ISO-traceable calibration certificate, Pulsation Dampener 375-100

You also need flexible tubing to connect the chek-mate to the sampling train: 1/4 in. inside diameter for the low and medium flow models, 3/8 in. for the high flow model.

Parts of the chek-mate



Figure 1. The chek-mate. Left: front; right: back, battery compartment open.
1 Inlet · **2** Outlet (suction port) · **3** Low-battery indicator · **4** Liquid crystal display (LCD) · **5** CalChek interface socket, medium and high flow models only · **6** On/off button · **7** Battery compartment cover with its two captive screws · **8** Battery

Air enters the chek-mate at the inlet (1) and leaves at the outlet (2), the suction port. The sample pump draws the air through the chek-mate: in a flow check the outlet is connected to the inlet of the sampling train, which leads to the pump.

Switching on and off

Press the on/off button on the front (6 in Figure 1 (p. 7)) to switch the chek-mate on, and press it briefly again to switch it off. Before you measure, leave the chek-mate for at least 10 minutes where you will use it, so that it takes on the ambient temperature.

On switching on, the display shows "On", then the top of the model's range — "**`0.5 L`**" (low flow), "**`5.0 L`**" (medium flow) or "**`30 L`**" (high flow) — and then the current flow rate. A row of dashes means that no air is flowing, or that the flow is below the lowest value the chek-mate can display.

Model	Lowest displayed flow at 68 °F (20 °C) and 1 atm (1013.25 mbar)
Low flow	5 mL/min
Medium flow	0.3 L/min
High flow	3 L/min

At higher altitude and higher temperature the lowest displayed flow rises.

> **Note**
> The chek-mate does not set its reading to zero when it starts. You can therefore switch it on with the sampling train already connected and air flowing through it; the reading is just as accurate.

Automatic power-off

As long as the chek-mate measures a flow above its lowest displayed value, it stays on. With no airflow, or a flow below that value (dashes on the display), it switches itself off after 15 minutes to

save the battery.

Battery status and display messages

Display	Meaning and what to do
"LOW BATTERY" (top left)	The battery voltage is below 8 V: the battery is nearly empty. Replace it (see Replacing the battery (p. 15)).
"LOW BATTERY" flashing	The battery voltage is below 7 V. The chek-mate switches off by itself.
"bAtt LO", ten times	The chek-mate was switched on again with a battery below 7 V. It switches off after the tenth message. Replace the battery.
Dashes ("- - - -")	No airflow, or flow below the lowest displayed value (see the table above).
"AVE"	The Average Display function is on (see Averaging a fluctuating reading (p. 10)).

CHAPTER 3

Operation

The chek-mate is used in two ways: in a flow check, where you adjust the pump by hand until the chek-mate shows the flow rate your method requires; and, with the medium and high flow models, with CalChek, where a CalChek-ready pump reads the chek-mate's measurements itself and verifies or calibrates its flow.

In a flow check the chek-mate sits at the open end of the sampling train, so that the pump draws all its air through the chek-mate and through a representative sample medium — a tube, filter or sampler of the same type as the one you will sample with. You then adjust the pump until the chek-mate shows the flow rate your method requires.

Before you start

- Let the chek-mate adjust to the ambient temperature for at least 10 minutes, keep it out of direct sunlight and keep liquids out of the inlet and outlet (see Safety (p. 5)).
- Set the flow rate on the pump as described in the pump's operating instructions.
- Have flexible tubing ready: 1/4 in. inside diameter for the low and medium flow models, 3/8 in. for the high flow model. If the sampler needs a calibration adapter, have it ready too.

> **Note**
> At pump flow rates of 5 L/min and above, the chek-mate needs Pulsation Dampener 375-150 in line. Without it the reading does not reach the chek-mate's full accuracy. Always fit the dampener between the chek-mate outlet and the inlet of the sampling train.

Setting up the sampling train

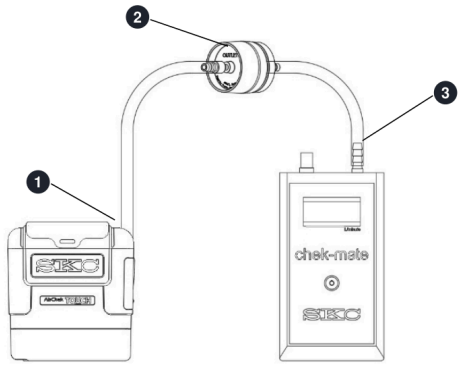


Figure 2. Sampling train for the low and medium flow models (medium flow pump shown).
1 Pump inlet · **2** Representative sample medium · **3** chek-mate outlet

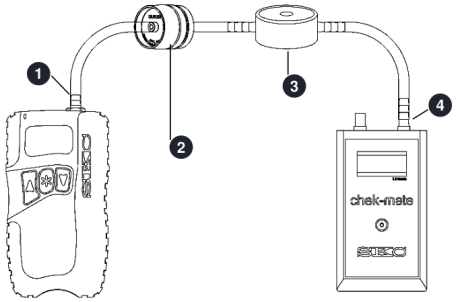


Figure 3. Sampling train for the high flow model.
1 Pump inlet · **2** Representative sample medium · **3** Pulsation dampener · **4** chek-mate outlet

- **Low and medium flow models:** connect the chek-mate outlet to the inlet of the sample medium with 1/4 in. tubing, using a calibration adapter if the sampler needs one (Figure 2).
- **High flow model:** use 3/8 in. tubing and put Pulsation Dampener 375-150 in line between the chek-mate outlet and the inlet of the sample medium; use a calibration adapter if the sampler needs one (Figure 3).

Note
A cyclone or other size-selective sampler without a calibration adapter cannot be connected this way. Use the jarless method for size-selective samplers (p. 10) instead.

Checking and adjusting the flow

1. Switch the chek-mate on and wait until it shows the flow reading (see Switching on and off (p. 7)).
2. Set up the sampling train as shown in Figure 2 (p. 9) or Figure 3 (p. 9).
3. Start the pump and let it run for at least 5 minutes so that its flow settles. Watch the display until the reading is steady. A steady reading may still move around its value by up to:
   - ±0.5 mL/min on the low flow model;
   - ±0.005 L/min on the medium flow model;
   - ±0.05 L/min on the high flow model.

   If the reading fluctuates more, use the Average Display function (see below).
4. Adjust the pump until the chek-mate shows the flow rate you need.
5. Pull the tubing off the chek-mate outlet without twisting the tubing.
6. Switch the chek-mate off.

Averaging a fluctuating reading

The Average Display function takes ten readings, 3.5 seconds apart, and shows their mean for 7.5 seconds; then a new cycle starts. One cycle takes about 45 seconds.

1. Press and hold the on/off button for several seconds. The display shows "AVE", then "On", and the chek-mate starts recording.
2. After the tenth reading, "AVE" appears briefly, followed by the average flow rate.
3. To restart the average at any point in a cycle, press and hold the on/off button again for several seconds. The average is then taken over the next ten readings.
4. To leave the function, switch the chek-mate off with a brief press of the on/off button and switch it on again.

Note
Older chek-mates have no Average Display function. On these, take the mean of the highest and lowest reading you observe, or note ten readings and take their mean.

Jarless method for size-selective samplers

If a cyclone or similar size-selective sampler has no calibration adapter, connect the chek-mate between the sampler and the pump instead of in front of the sampler:

1. Connect the pump to the chek-mate outlet (the suction port), with a pulsation dampener in line between pump and chek-mate: Pulsation Dampener 375-100 for the medium flow model, 375-150 for the high flow model.
2. Connect the sampler with its sample medium to the chek-mate inlet, with the shortest tubing possible.
3. Check and adjust the flow as described in Checking and adjusting the flow (p. 10) and in the pump's operating instructions.

CalChek

The medium and high flow models can also verify and calibrate CalChek-ready pumps automatically, through their CalChek interface: see Communication (p. 12).

CHAPTER 4

Communication

CalChek automatic verification and calibration

The medium and high flow chek-mates can talk directly to CalChek-ready SKC AirChek TOUCH and Leland Legacy pumps. Once connected, the pump reads the chek-mate's measurements itself and either verifies its flow at one point or calibrates its flow over its whole operating range.

CalChek single and CalChek full

	CalChek single	CalChek full
What it does	Automatic verification of one flow rate	Automatic calibration: verifies the pump's flow across its entire operating range and adjusts it where needed
In the sampling train	Representative sample medium; with the high flow chek-mate also Pulsation Dampener 375-150	No sample medium; instead a pulsation dampener between chek-mate and pump: 375-100 with the medium flow chek-mate, 375-150 with the high flow chek-mate
Always needed	CalChek Communication Cable 375-200; medium or high flow chek-mate; CalChek-ready AirChek TOUCH or Leland Legacy pump	

Note
The pump controls the CalChek process; its operating instructions describe the pump side in full. For the AirChek TOUCH, see the SKC AirChek TOUCH Operating Manual (AMTC-MN-0038).

Connecting the chek-mate and running CalChek



Figure 4. CalChek cable connections. Left: CalChek interface socket on the chek-mate. Centre: CalChek port at the back of the AirChek TOUCH charging cradle. Right: Leland Legacy pump seen from the top; **1** data port.

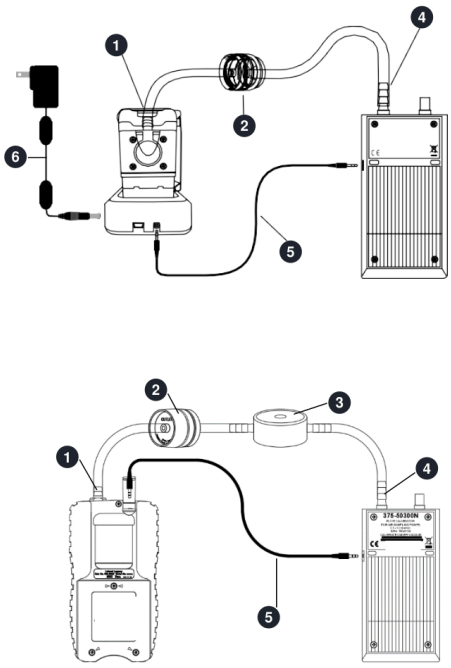


Figure 5. CalChek single verification train. Top: AirChek TOUCH in its charging cradle; bottom: Leland Legacy.
1 Pump inlet · **2** Representative sample medium · **3** Pulsation dampener · **4** chek-mate outlet · **5** CalChek Communication Cable · **6** Power supply of the charging cradle

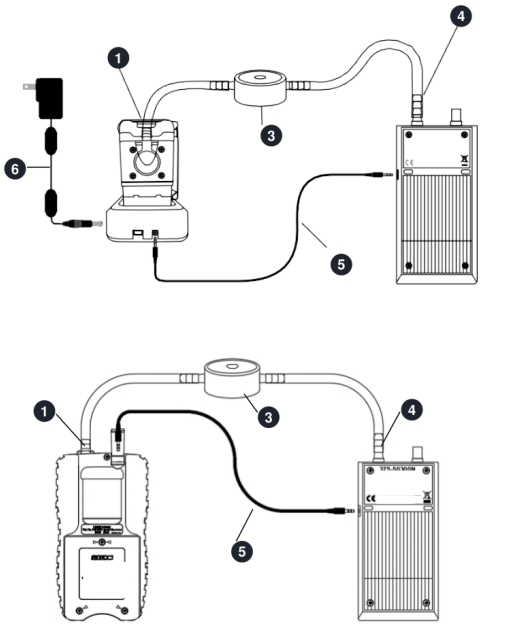


Figure 6. CalChek full verification train, without sample medium. Top: AirChek TOUCH in its charging cradle; bottom: Leland Legacy.
1 Pump inlet · **3** Pulsation dampener · **4** chek-mate outlet · **5** CalChek Communication Cable · **6** Power supply of the charging cradle

1. Prepare the pump as its operating instructions describe. For an AirChek TOUCH, the charging cradle must have the right power supply connected, and the pump must sit correctly in the cradle.
2. Switch the chek-mate on.
3. Connect the CalChek Communication Cable (Figure 4): plug one end into the CalChek interface socket on the chek-mate and the other end into the pump side:
   - **AirChek TOUCH:** the CalChek port at the back of the charging cradle or e-Cradle;
   - **Leland Legacy:** the data port on top of the pump.
4. Set up the verification train as shown in Figure 5 (CalChek single) or Figure 6 (CalChek full): connect the chek-mate outlet to the pump inlet with 1/4 in. inside-diameter flexible tubing for the AirChek TOUCH, and 3/8 in. for the Leland Legacy. Use a calibration adapter if the sampler needs one.
5. Start CalChek single or CalChek full on the pump, as its operating instructions describe.
6. As soon as air flows through it, the chek-mate sends its flow reading over the CalChek interface every 3.5 seconds. The pump takes the readings it needs and shows on its own display when the process is complete.

CHAPTER 5

Calibration and verification

A flowmeter used to check other instruments needs regular calibration of its own. This chapter gives the recommended interval and the information a calibration laboratory needs to calibrate the chek-mate correctly.

Calibration interval

The manufacturer recommends calibrating the chek-mate at least once a year. The interval that suits you is your decision: set it to meet the requirements of your quality system, and take into account how often and in what environment the chek-mate is used.

Analyt-MTC arranges recalibration of the chek-mate. Contact Analyt-MTC for the calibration options and a return procedure (see Service, warranty and contacts (p. 18)).

How the chek-mate is calibrated

In use, the chek-mate sits in a sampling train and the air sample pump pulls air through it by suction. So that the calibration reflects this, the factory calibrates the chek-mate under vacuum, connected in series with the reference flowmeter. The manufacturer recommends calibrating it the same way afterwards. Calibration under positive pressure, with compressed laboratory air or nitrogen and the chek-mate again in series with the reference flowmeter, is also acceptable.

Information for the calibration laboratory

If you send the chek-mate to a calibration laboratory, fit a new battery first and enclose a copy of this manual. The laboratory should observe the following:

- **Display conditions.** The chek-mate shows the flow at the current ambient temperature and atmospheric pressure — in mL/min on the low flow models and in L/min on the medium and high flow models (all three certificate versions of each). Correct the reference flow to these conditions before comparing it with the chek-mate reading.
- **Calibration gas.** The factory calibration under vacuum uses ambient air at 50 ±20 % relative humidity. When calibrating under positive pressure with dry compressed laboratory air or nitrogen, correct for the difference in gas density.
- **Under vacuum, in series:** connect the chek-mate with its inlet open to atmosphere.
- **Under positive pressure, in series:** connect the chek-mate with its outlet open to atmosphere.

CHAPTER 6

Maintenance

Day-to-day care of the chek-mate comes down to two tasks: changing the battery and keeping the case clean. Everything else, including recalibration, is described in Calibration and verification (p. 14).

Replacing the battery

Replace the battery when "LOW BATTERY" appears at the top left of the display (battery below 8 V). Use a good-quality 9 V alkaline battery: it lasts longer and is less likely to leak. A quality battery such as the Duracell Industrial supplied with the chek-mate gives up to 30 hours of operation. If you prefer a rechargeable battery, it must be an 8.4 V NiMH type (see Power (p. 16)).

1. Undo the two captive screws of the battery compartment cover on the back with a small Phillips screwdriver, and take the cover off (7 in Figure 1 (p. 7)).
2. Lift the old battery straight up and out of the compartment.
3. Insert the new battery with its terminals the right way round, as shown on the label at the bottom of the compartment.
4. Put the cover back and fasten it with the two captive screws. Do not overtighten them.

If you do not replace the battery, the chek-mate switches itself off once the voltage drops below 7 V; "LOW BATTERY" flashes first. Switched on again with that battery, it shows "bAtt LO" ten times and switches off.

NOTICE

A battery left in an unused chek-mate can leak and corrode it (see Battery (p. 5) in chapter 1). Battery types other than those specified void the warranty. Take the battery out when you will not use the chek-mate for a long time. Use only the specified battery types.

Cleaning and disinfecting

Clean and disinfect the chek-mate with a non-bleach disinfectant wipe. Such wipes do not harm the plastic and rubberised case or the display window.

1. Switch the chek-mate off.

   NOTICE

   Isopropyl alcohol (IPA) and other solvents are unsuitable for the chek-mate. They attack the parts of the case. Do not clean or decontaminate the chek-mate with IPA or other solvents.

2. Wipe the whole instrument thoroughly with a non-bleach disinfectant wipe.
3. Leave the surface wet for 2 minutes, or until it has dried, so that the disinfectant can act.

CHAPTER 7

Specifications

Flow measurement

	Low flow 375-00205…	Medium flow 375-0550…	High flow 375-50300…
Flow range	20–500 mL/min	0.5–5 L/min	5–30 L/min
Display resolution	0.01 mL/min up to 100 mL/min, 0.1 mL/min above	0.001 L/min	0.01 L/min
Accuracy	±1 % of reading at 50–500 mL/min; 2.5 % of reading below	±1 % of reading at 750–5000 mL/min; 2.5 % of reading below	±1 % of reading at 5–30 L/min
Lowest displayed flow*	5 mL/min	0.3 L/min	3 L/min
CalChek interface	no	yes	yes
Tubing, inside diameter	1/4 in.	1/4 in.	3/8 in.
Weight	8.2 oz (232 g)	8.3 oz (236 g)	8.6 oz (244 g)

* At 68 °F (20 °C) and 1 atm (1013.25 mbar); higher at higher altitude and temperature.

Operating conditions and dimensions

Temperature	32–104 °F (0–40 °C)
Atmospheric pressure	20.7–32.2 inHg (700–1090 mbar)
Altitude	Sea level to approx. 10 000 ft (3050 m)
Enclosure	IP40
Dimensions	7.1 × 3.3 × 1.3 in (18 × 8.3 × 3.3 cm)
Certification	CE

Power

Battery	One 9 V alkaline battery (disposable), PP3/6LR61/1604A or equivalent: approx. 30 hours of operation or one 8.4 V NiMH battery (rechargeable), PP3/6HR1/8.4H5 or equivalent
Low battery	Below 8 V: "LOW BATTERY" on the display
Low-battery shut-down	Below 7 V: the chek-mate switches off
Automatic power-off	After 15 min without flow above the lowest displayed value

CHAPTER 8

Ordering information

Order from Analyt-MTC with the order codes. For the flowmeters and kits, see Checking the contents (p. 6).

Description	Order code
CalChek Communication Cable, for CalChek flow verification and full calibration of AirChek TOUCH and Leland Legacy sample pumps	375-200
Pulsation Dampener, for the medium flow chek-mate (375-0550, 375-0550S): CalChek full calibration of AirChek TOUCH pumps	375-100
Pulsation Dampener, for the high flow chek-mate (375-50300N, 375-50300, 375-50300S): manual flow checks of high flow pumps, CalChek verification and full calibration of Leland Legacy pumps	375-150
Battery, 9 V alkaline	P37500

Where each pulsation dampener goes in the sampling train is described in Setting up the sampling train (p. 9) and in CalChek automatic verification and calibration (p. 12).

CHAPTER 9

Service, warranty and contacts

Analyt-MTC is your contact for everything concerning the chek-mate: technical questions, accessories and spare parts, recalibration, repairs and warranty claims. Apart from the battery, the chek-mate has no parts you can service yourself; do not open the case, but contact Analyt-MTC.

Contact

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www.analyt-mtc.com

Before you contact Analyt-MTC

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

- the catalogue number and serial number from the label on the back of the chek-mate;
- the date of the last calibration, from the calibration certificate;
- what happened, and what the display showed.

Sending in the chek-mate

Before you send the chek-mate for recalibration or repair, ask Analyt-MTC how to return it. For a recalibration, fit a new battery first, as Information for the calibration laboratory (p. 14) explains.

Warranty

Make warranty claims to Analyt-MTC; Analyt-MTC's terms and conditions apply. The warranty is void if the case of the chek-mate has been opened — the anti-tamper label shows this — or if the cautions in Safety (p. 5) and Replacing the battery (p. 15) have not been followed.

Disposal

Do not dispose of the chek-mate 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.

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