



Apex2™

Personal Sampling Pump

The next generation of personal sampling pumps



The new **Apex2** range of sampling pumps combines class beating performance with great new features. Get connected with the Airwave® mobile app and easily send data direct to your laptop.



Key features

- Class beating performance
- Bluetooth® and Airwave app
- Wearer acceptance
- Motion Sensing
- Simple Operation
- Innovative Features
- Easy Reporting



I'd really like to monitor the device remotely.



Get Connected!!

Monitor your pump remotely with Bluetooth 4.0* and the supporting Airwave Android App on your phone or tablet. There's no need to disturb the wearer from what they're doing when you can view the status of the pump, or even start, stop and pause it direct from your mobile device. The dashboard display provides the run data at a glance and you can email this data alongside photos and notes direct to your PC making your reporting easier.

*Available on Plus and Pro models only

Class beating performance!

Whatever media you're using you can be assured that the Apex2 has the power to handle any personal monitoring regime. Optimised at around 2l/min, the flow at which most Occupational Hygiene measurements are made, the Apex2 has outstanding back pressure capability. There are no more worries about battery life; the new Apex2 has high performing Li ion batteries and an intelligent battery life indicator letting you know exactly how much charge you have left. And with the Apex2 performing with a pulsation value of ~10% you can have true confidence in the integrity of your samples.

Wearer Acceptance

With its slim ergonomic design, the pump is less obtrusive to the wearer allowing them to carry on with their job whilst being monitored. A sturdy clip with a lifetime guarantee means it's secure and the detachable rubber boot guards against knocks. Ingress resistant to IP65 means that you can use it in the harshest environments and its smooth finish means it's easy to decontaminate.

Great Performance
have true confidence
in your sampling



Motion Sensor
to monitor wearer
compliance

Summary
along with
and not
emailed to
colleagues
in re



Get connected
Bluetooth wireless connectivity, with supporting **Airwave** app.

View your **Apex2** remotely



Primary data and photographs can be saved to yourself or a cloud for inclusion in reports.

Data and Reporting

The Apex2 can store up to 200 separate runs, storing data including start time and date, duration, volume sampled and the motion index. It also records events such as pauses. This data can be transferred from the pump via the docking station and a data download utility. The resulting data is in excel format allowing you easier reporting and the ability to tie up lab results, photos and notes.

Simple Operation

The Apex2 has a simple user interface and menu structure. Using only 4 buttons you can easily navigate through the colour coded start and set-up menus - just requiring one key press to start or continue a run. Data from the current run/last run is continually displayed clearly allowing you to, at a glance, refer or make notes on your sample.

Great User Features

We have some great features to make your life easier too - a motion detector lets you know that the pump is being worn so you can be sure your sample is a valid one and with a fault detector and automatic restart too you can have total confidence in your results. We have included a user lock to avoid any interference during a run and a highly visible status indicator gives you peace of mind. To enable easier sampling, you also have the ability to set timers and programmes in the Plus and Pro models. And if you need a grab sample, there's a bag outlet to easily collect these.



We're using lots of membrane filters so excellent back pressure capability is a must.

Technical Specification

Flow Performance

Flow Range ml/min: 1000-5000
 Low Flow Range ml/min: 5-500*
 Flow Control: $\pm 5\%$ at calibrated point
 Pulsation: <math>< 10\%</math> @ 2l/min
 Back Pressure Capability: see separate table
 Fault Detector: Auto Restart

Operating

Display: Colour OLED
 Controls: 4 buttons
 Status Indicators: Red/Green LED
 Dimensions: 112x37x102mm
 Weight: 480g

Environmental

Temperature: Operation, 0 - 45°C
 Storage, -10 - 50°C
 Humidity: 30-95% RH (non-condensing)
 Barometric Pressure: Auto-correcting

Electrical

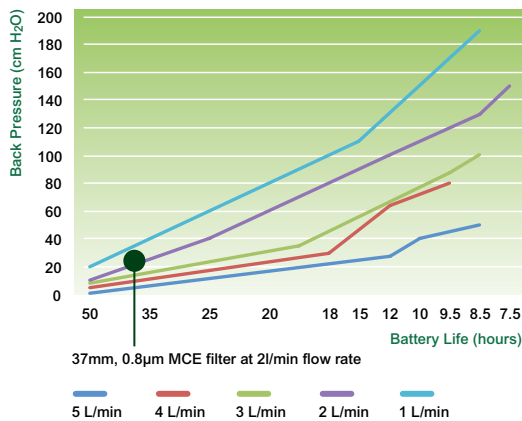
Battery Type: Li ion
 Battery Level Indicator: Yes
 Battery Life: See separate table
 Chargers: Single or 5-way
 Charge time: Typically <math>< 6\text{hrs}</math>

Approvals

EN1232 Compliant
 ISO 13137 Compliant
 Ingress Protections: IP65

*Requires adaptor

Back Pressure (cm H₂O) vs. Battery Life



Model Variants

	Apex2	Apex2 PLUS	Apex2 PRO
Motion sensor	•	•	•
Bag outlet	•	•	•
Bluetooth®		•	•
PC download		•	•
Inlet pressure sensing		•	•
Run duration timer		•	•
Fully programmable timers			•

Ordering Information

Apex2 Models

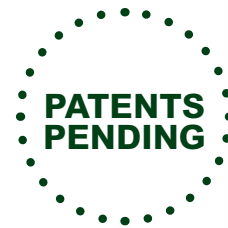
Apex2	Apex2 Standard Pump
Apex2Plus	Apex2 Plus Pump
Apex2Pro	Apex2 Pro Pump

Apex2 Accessories

209055b/KIT	Single Docking Station for Apex2 Pump inc PSU & USB Cable
209058b/KIT	5-Way Docking Station for Apex2 Pump inc PSU & USB Cable
209025C	Protective Rubber Boot

Apex2 Kits

APEX2KIT	5-Way Apex2 Standard Kit
APEX2PLUSKIT	5-Way Apex2 Plus Kit
APEX2PROKIT	5-Way Apex2 Pro Kit



Casella reserves the right to amend the specification without notice.

Casella

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