



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
colleague
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:	< ± 5% at calibrated point
Pulsation:	<10% @ 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	>9hours
Chargers	Single or 5-way
Charge time	Typically <6hrs

Approvals

EN1232 Compliant
ISO 13137 Compliant
Ingress Protections: IP65

*Requires adaptor

Flow Performance

5.0 l/min	20" (50cm) H2O for 8.5 hours 16" (41cm) H2O for 10 hours 11" (28cm) H2O for 12 hours
4.0 l/min	31.5" (80cm) H2O for 9.5 hours 25" (64cm) H2O for 11 hours 10" (25cm) H2O for 17.5 hours
3.0 l/min	43.5" (110cm) H2O for 8.5 hours 39" (101cm) H2O for 8.5 hours 34.5" (88cm) H2O for 9.5 hours
2.0l/min	59" (150cm) H2O for 7.5 hours 51" (130cm) H2O for 8.5 hours 39" (101cm) H2O for 11 hours 16" (40cm) H2O for 26 hours 4" (10cm) H2O for 46 hours
1.0 l/min	75" (190cm) H2O for 8.5 hours 43.5" (110cm) H2O for 16 hours

Casella reserves the right to amend the specification without notice.

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

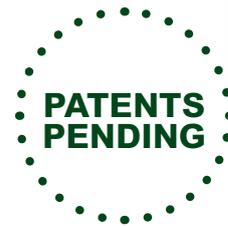
Apex2	Apex2 Standard Pump
Apex2Plus	Apex2 Plus Pump
Apex2Pro	Apex2 Pro Pump

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

Regent House, Wolsley Road,
Kempston, Bedford, MK42 7JY.
United Kingdom
Tel: +44 (0) 1234 844100
Fax: +44 (0) 1234 841490
Email: info@casellasolutions.com
www.casellasolutions.com

Casella Inc.

a subsidiary of Ideal Industries, Inc.
415 Lawrence Bell Drive, Unit 4
Buffalo, NY 14221, USA
Toll Free: (800) 366-2966
Tel: (716) 276 3040
Fax: (716) 276 3043
Email: info@casellaUSA.com

Distributed By



Ideal Industries India Pvt.Ltd.

229-230, Spazedge, Tower -B Sohna Road,
Sector-47, Gurgaon-122001, Haryana (India)
Tel: +91 124 4495100
E-mail: Casella.Sales@ideal-industries.in

Ideal Industries China

No. 61, Lane 1000,
Zhangheng Road, Pudong District
Shanghai, 201203, China
E-mail: info@casellasolutions.cn

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