



Personal Monitoring in a Distanced World

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Jason Holker (805) 910-0680

Jason.holker@casellasolutions.com

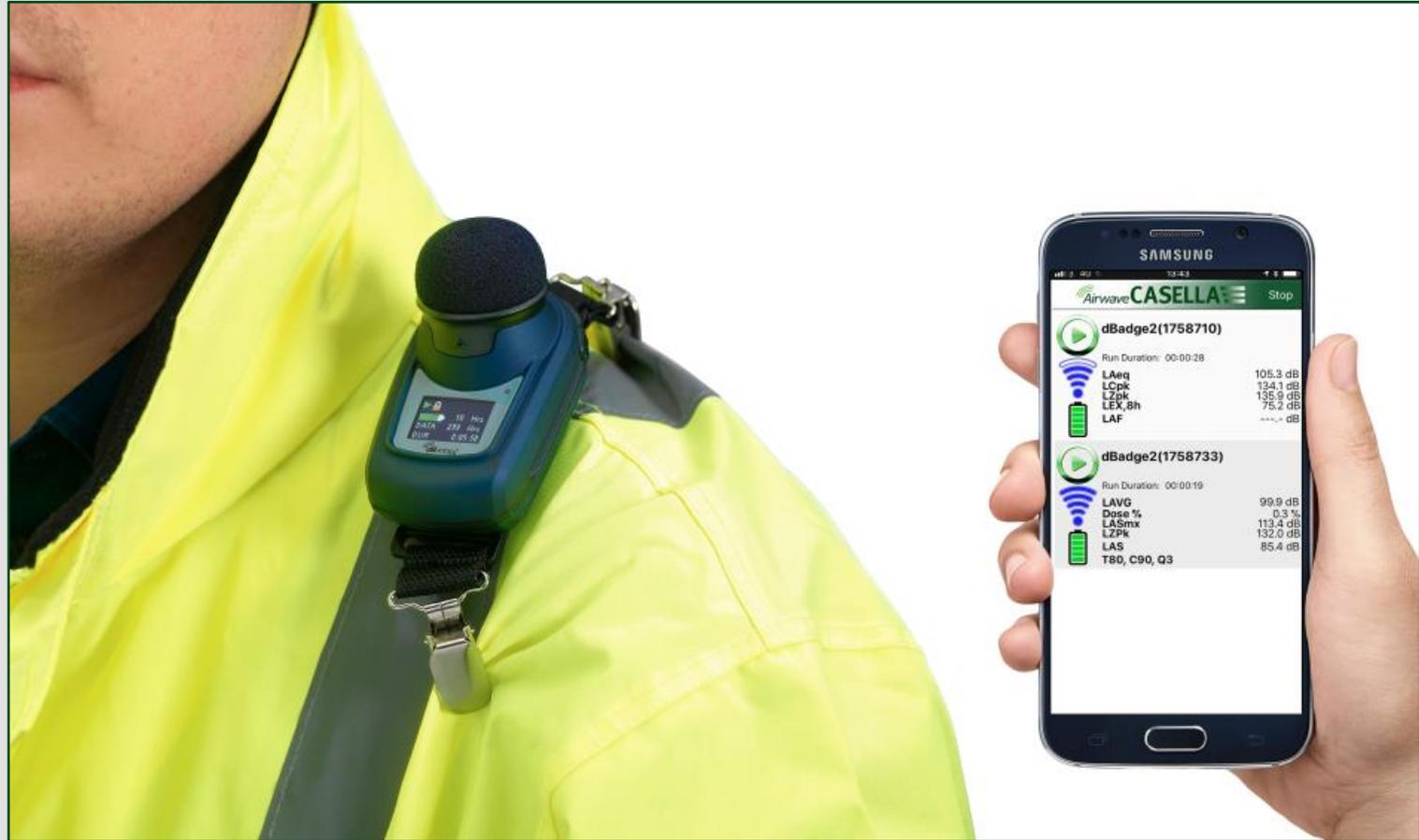
Industrial Hygiene Challenges

- Personal monitoring of exposure remotely e.g.
 - Noise dosimeter
 - Air sampling pump
- Maintain social distancing
 - Providing equipment
 - Checking through the day
 - Collection at the end
- Cleaning and maintenance



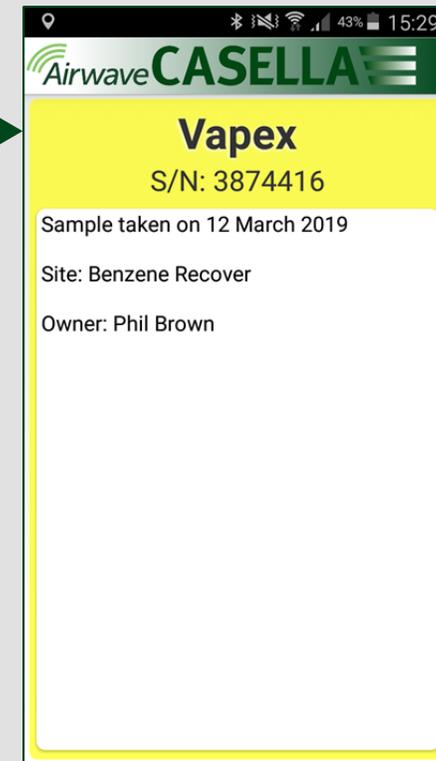
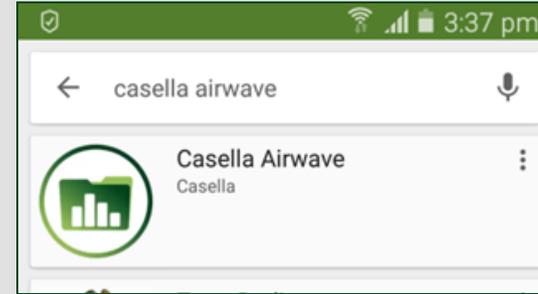
Industrial Hygiene Challenges

- Can technology help?
 - Bluetooth (BLE)
 - 25m range
- Apps can:
 - Start stop measurements
 - Allow checking through the day



Casella Airwave App

- Download from your App store
- Connects via Android or iOS
- Press 'Scan' to find Apex2
- Finds all pumps in Bluetooth range
- Select pump for more detailed information
- Start and stop pump remotely
- Add notes to run



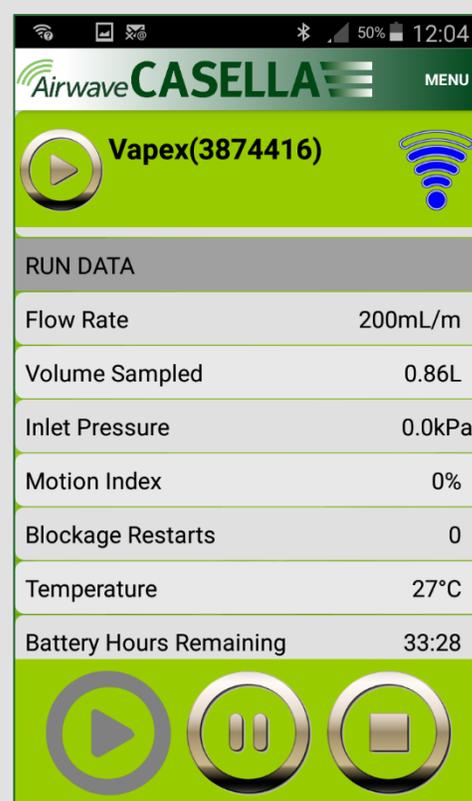
Air Sampling Pump – Remote Operation via Airwave App



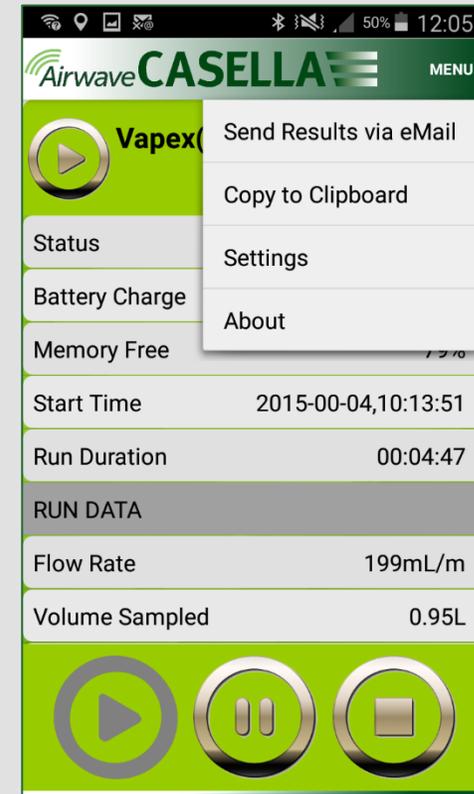
1 Find your VAPex on Airwave



2 Click 'Run' button



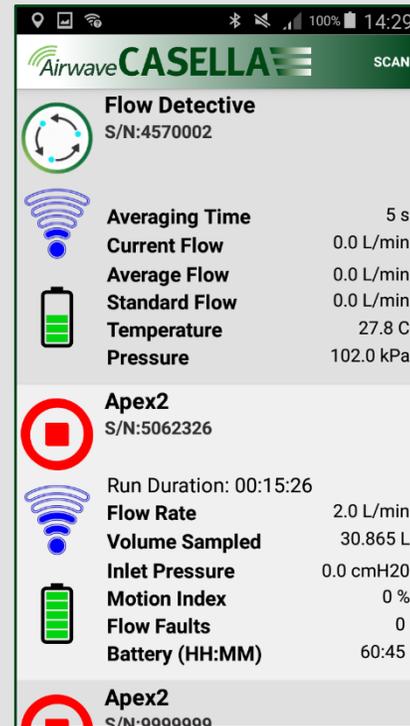
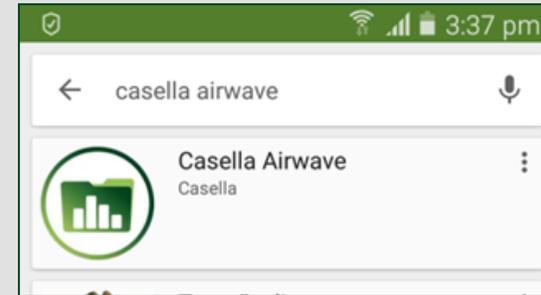
3 Start viewing the sampling



4 Email a copy of results

Flow Detective – Casella Airwave App

- Download from your App store
- Connects via Android or iOS
- Finds all Flow Detectives in Bluetooth range
- Ensure Bluetooth enabled in menu (available on Plus models only)
- Allows data to be emailed from Flow Detective to give traceability



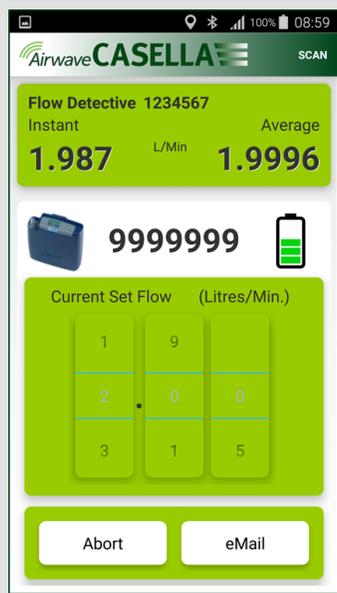
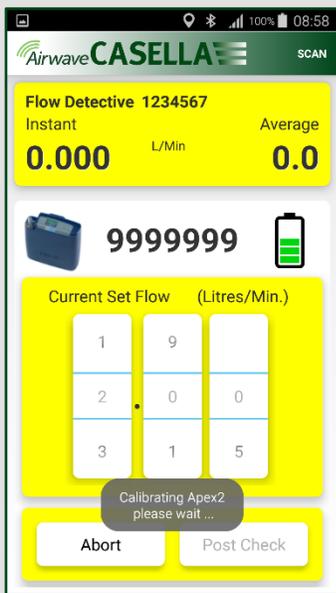
CALIBRATION RESULTS	
Calibration Completed	11:44am 26/03/2018
Average Flow	1998mL/min
Standard Flow	2000mL/min
Temperature	24.2°C
Pressure	1015.30mBar
Apex2	6339120

POST RUN CHECK RESULTS	
Flow Detective	0183828
Post Run Check Completed	11:44am 26/03/2018
Post Run Average Flow	2001mL/min
Post Run Standard Flow	2000mL/min
Temperature	24.2°C
Pressure	1015.30mBar
Apex2	6339120
Location	Google Maps

CORRECTED AVERAGE FLOWS	
Corrected Average Flow	2.000L/min
Corrected Standard Flow	2.00L/min

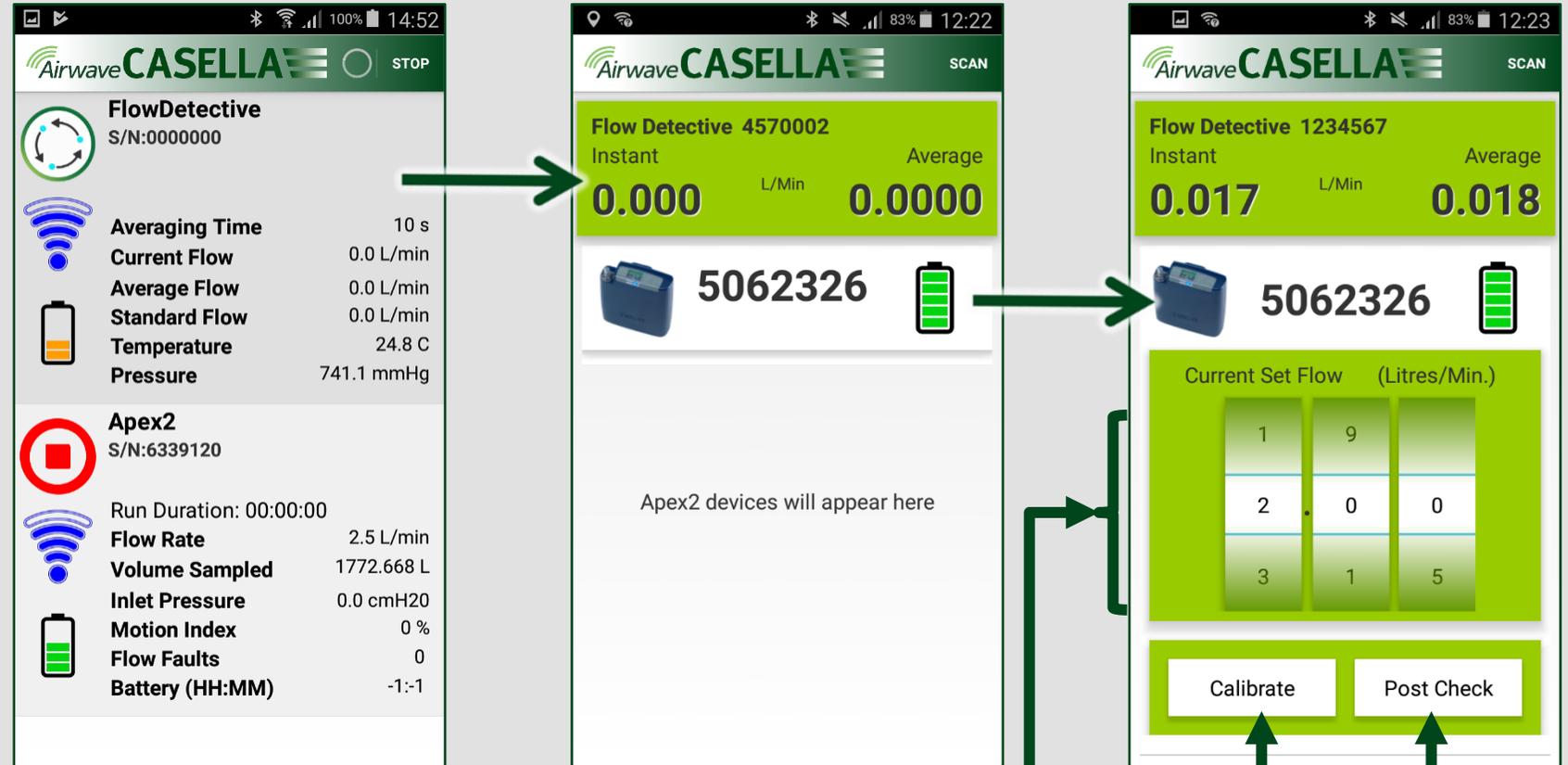
Flow Detective – Closed Loop Calibration with Air Sampling Pumps

- Connects to both the Apex2/VAPex and Flow Detective



Flow Detective – Closed Loop Calibration with Apex2

- Select flow detective
- Select pump to be calibrated
 - Pumps switched on
 - Scan if not found
- Set pump flow
- ‘Calibrate’ or ‘post check’



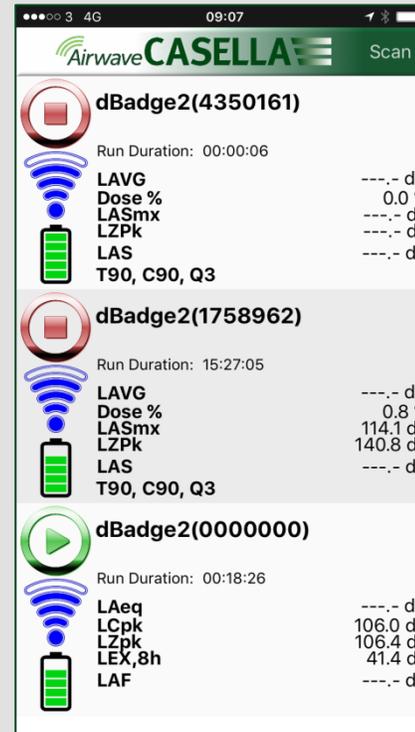
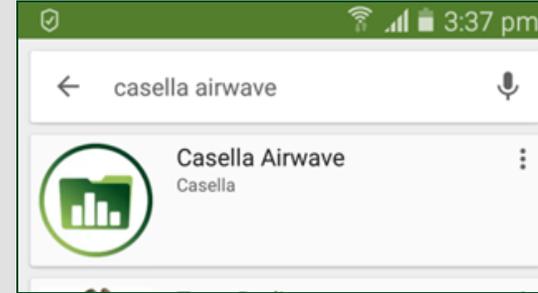
Set flow

Calibrates flow to set level

Checks current flow of pump only

dBadge2 – Casella Airwave

- Download from your App store
- Connects via Android or iOS
- Press 'Scan' to find dBadge2
- Finds all units in Bluetooth range
- Select dBadge2 for more detailed information
- Start and stop dBadge2 remotely



dBadge2 – Casella Airwave



- Send directly to email inbox
- Enter sample info
- Gives location data

The diagram illustrates the workflow of the dBadge2 app. It starts with the main menu where users can 'Send via eMail...', 'Copy to Clipboard', 'Settings', or 'About'. The 'Enter Details' screen allows users to input information such as Worker Name, Location, Task, Sample ID, and Shift Breaks. The resulting email content includes a comprehensive list of metrics: Status (STOPPED), Battery Hours Remaining (34), Memory Free (92%), Start Time (2017-01-09, 10:06:49), Run Duration (0:07:05), OSHA PEL T90,C90,Q5, LAS (---dB), LZPk (110.7dB), LASmx (100.4dB), Motion Index (11%), LAVG (64.3dB), TWA 8Hrs (33.9dB), Projected TWA 8Hrs (64.3dB), Dose (0.1%), Proj. Dose (8.9%), OSHA HC T80,C90,Q5, and LAVG (67.4dB). The map shows the location of Casella, Arqadia, and Polycote UK, with a red pin indicating the specific location.

Cleaning and Maintenance

- Bodily worn instruments
 - Will require sterilization
 - Keep you and your business/staff safe
- Methods
 - UV
 - Alcohol



Questions?

info-us@casellasolutions.com

Jason.holker@casellasolutions.com

