

Press release
12th March 2018

Casella launches game changer in air sampling calibration - Flow Detective™

[Casella](#), air sampling, noise and vibration monitoring specialist introduces the Flow Detective™ air sampling pump calibrator. The product is the first in the industry with the ability to measure pulsation, with a 70-hour battery life; the longest on the market and double the duration of competitive products.

There is an estimated 18,000 new cases of breathing or lung problems a year caused or made worse by work, and an estimated 12,000 deaths from lung diseases linked to exposure at work^[1]. It is an employer's duty to protect the health of employees through health surveillance and exposure monitoring^[2]. Air sampling is crucial and Casella's latest Flow Detective™ is a robust solution allowing air sampling pumps to be calibrated, ensuring the pump has the correct flow, with traceable measurement results.



The Flow Detective™ is an electronic flow meter calibrator, designed to measure the flow of air sampling pumps to within 2% accuracy. The device will be the first on the market with a Bluetooth connectivity, through Casella's Airwave App. Airwave is the only app of its kind providing remote control for dust and noise monitoring devices, enabling calibration results to be sent via email, ensuring improved traceability and pump calibration procedures. As well as detecting air flow, the Flow Detective™ is the first calibrator on the market with the ability to measure pulsation, indicating if the air flow pulsation exceeds 10%. Air sampling pumps must have a pulsation level less than 10% if they are to adhere to ISO 13137. Excessive pulsation means an unsteady flow and has a detrimental effect on the ability of cyclone air samplers to collect the correct fraction of respirable dust.



The Flow Detective™ can be used with any manufacturers' air sampling pumps. When used with Casella's Apex2 personal dust sampling pump, the Apex2 and Flow Detective™ can be connected via the Airwave App allowing for closed loop airflow calibration with the ability to remotely set the flow via Airwave. This means no manual settings have to be done on the pump or flowmeter, drastically saving time when calibrating pumps.

The Flow Detective™ will save professionals additional time due to its simple user inter-face, colour-screen and wide flow measurement range, which can be used for all personal flow use with any pump. The Flow Detective calibrator saves significant time compared to other electronic or traditional bubble flow meter calibration methods minimizing set up prior to undertaking calibrations and enabling tagging pre and post calibration data. The device is also functional for both dust and vapour sampling from 25mL to 5L per minute. As it also measures temperature and pressure, this gives peace of mind that the units will always be accurate, regardless of the environment.

Casella is dedicated to reducing occupational health and environmental risks, and supporting businesses solve their monitoring and analysis needs. For more information about the Flow Detective and Casella's air sampling monitoring solutions visit, www.casellasolutions.com

Notes

About Casella

Casella is dedicated to reducing occupational health and environmental risks through a core competence in dust, noise and vibration monitoring. The company has provided precision instrumentation since 1799 and supplied eminent figures including Charles Darwin with instrumentation for exploration and scientific work. Casella's core purpose is to create technology aimed at improving the working environment of employees whilst providing robust data and equipment platforms to enable organisations to remain compliant with health and safety regulations. The company is expert in the integration of sensor technology and data management systems that further improve productivity and overall safety in the workplace. Casella is a global business with offices in the UK, US, Australia, China and India, supported by a network of distributors providing local service and support to those searching out solutions for risk reductions. www.casellasolutions.com

[1] <http://www.hse.gov.uk/statistics/causdis/respiratory-diseases.pdf>

[2] <http://www.hse.gov.uk/copd/employers.htm>

