

# Respiratory Data Analyser

The SE-RDA is a portable instrument that analyses real-time respiratory flow rate and air pressure inside a respirator while fitted to a person. The device is used on location during normal work, continuously recording each individual breath at a rate of 50 samples per second for up to 12 hours.



**SE-RDA performs quantitative measuring of a mask wearer's breathing while carrying out routine tasks. The recorded information simplifies the selection of an appropriate respirator for the work at hand.**

## FEATURES:

Captures multiple breathing parameters in real time.

Can be used to measure human breathing during any activity, even where breathing protection is not normally worn.

Monitoring can be done on negative-pressure air-filtering Respiratory Protection Devices (RPD), as well as positive-pressure respirators (such as PAPR or breathing apparatus).

Does not affect breathing resistance or interfere with the airflow through the mask.



## BENEFITS:

No advanced technical skills required.

Powered by three AAA batteries.

Can be connected to Sundström half or full-face masks without any permanent modifications.

Can be used with Powered Air-Purifying Respirators (PAPR) to ensure that positive pressure is maintained, or to determine the amount of time the device dips into negative pressure.



## EASY-TO-USE KIT

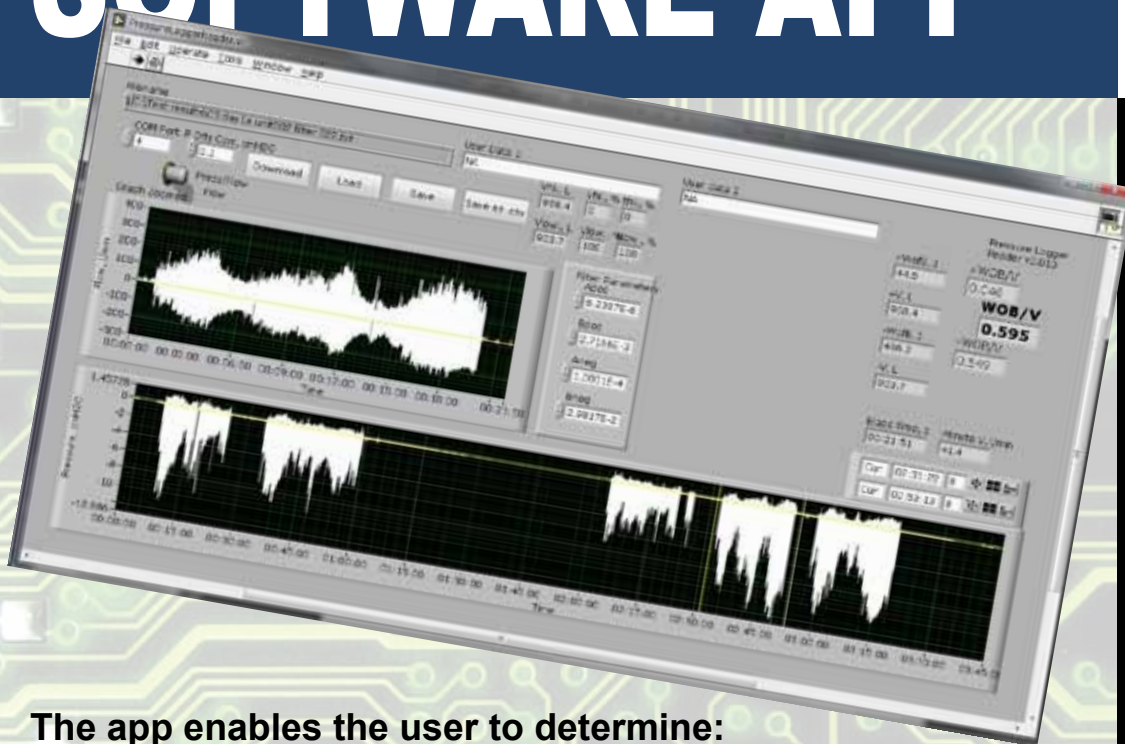
The collected data can answer many questions about an RPD. For example:

What effect does the filter have on flow rates?

Can a PAPR deliver airflows that are greater than the peak inhalation rates?

Do the peak inhalation rates cause negative pressure inside a loose-fitting head-top?

# SOFTWARE APP



### The app enables the user to determine:

- Minute volumes (averaged over an entire shift or selected periods).
- Total volume breathed.
- Peak inhalation flowrates for all tasks performed during the period.
- Breathing Resistance (BR) and Work of Breathing (WoB) for various types of RPD.
- ISO Work Rate classification (W1 – W4) and how the work rate varies over the period.
- The amount of time the respirator is worn during the shift.



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