
Data Sheet: SE-RDA Respiratory Data Analyser



Quantitative real-time measuring of human breathing

Description

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 performing normal work routines

Range of devices

Can be connected to negative-pressure devices with filters and positive-pressure respirators such as Powered Air-Purifying Respirators (PAPR) and breathing apparatus. Can be connected to Sundström full face and half face masks without any modifications

Sampling

Captures multiple breathing parameters in real time at a rate of 50 times per second for up to 12 hours

Software app

Comprehensive software app included. 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.

Battery

3 x AAA batteries

Dimensions

127H x 78W x 26D mm — pocket clip on back. Connectors extend approx. 8 mm from housing

Weight

126 g