

WheezoMeter™

The Only Point-of-Care Wheeze Detector



WheezoMeter™

State-of-the-Art Wheeze Measuring Device

Acoustic Respiratory Monitoring

The WheezoMeter™ analyzes 30 seconds of breath sounds using advanced signal processing algorithms to detect, quantify and objectively document the presence of wheeze and its extent, the WheezeRATE™.

- The **WheezoMeter™** is calibrated and validated as determined by consensus of a panel of experts who evaluated and scored many recordings for presence of wheeze.
- The **WheezoMeter™** uses a cascade of 6 proprietary technologies to "defend" the signals against false detection of ambient noises as wheeze.

The WheezoMeter™ can be used by:

- **Physicians:** Pediatricians, GPs, internists, asthma/allergy specialists.
- **Nurses:** Emergency, ICU/PICU/NICU, ward, asthma nurses, school nurses.
- **Technicians and Paramedics:** Respiratory therapists, EMS personnel, military medics, sports paramedics, occupational health officers.
- **Patients and Caregivers:** Under guidance of a healthcare professional.



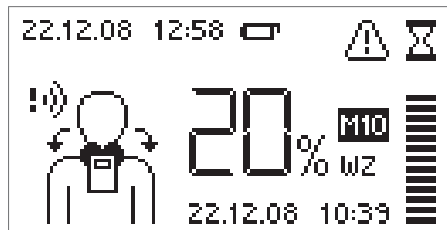
WheezeRATE™: Proportion of the respiratory cycle duration occupied by wheezing - T_w/T_{tot}

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The **WheezoMeter™** design is based on ergonomic human-interfacing principles as dictated by functional and anatomical requirements in a state-of-the-art attractive form.

- Facilitates the correct anatomical placement of the device in contact with the trachea at the correct contact force.
- Provides stable contact with the skin surface for the duration of the test.
- Isolates the measuring head and sensor from vibrations and tremor of the hand holding the **WheezoMeter™**.



Wheezometer™ provides a simple and intuitive user interface with clear Wz% readout, time and date of test, as well as specific icon indicators for unstable sensor contact and excessive ambient or patient noise.



Infant Sensor™ (optional) is used for babies and toddlers who typically have a short neck.

WheezoMeter™ uses:

- Obtain a “spot check” measurement of present wheeze activity, any time, any place, as often as needed without any patient effort.
- Measure **WheezeRATE™** before and after administration of a bronchodilator (“pre-post” test).
- Communicate status of homebound or remote patient to physician or healthcare professional.

Personal WheezoMeter™ Specifications

System Components	<ul style="list-style-type: none"> • WheezoMeter™ with embedded Black Fin® processor. Self-contained cushioned built-in silicone-coated PPG Sensor • Carrying case
Sensor	<ul style="list-style-type: none"> • PPG Sensor with broad spectrum frequency response, >60 dB dynamic range and superior ambient noise rejection
Software	<ul style="list-style-type: none"> • Proprietary iSonea Wheeze Detection algorithms plus comprehensive ambient noise rejection capability.
Capacity	<ul style="list-style-type: none"> • Allows scrolling of the last 999 measurements for review
Batteries	<ul style="list-style-type: none"> • 2 AA or NiMH type, 2850 Ansmann recommended (not included)
Auxiliary Input	<ul style="list-style-type: none"> • Infant sensor holder for babies and toddlers (optional)
Warranty	<ul style="list-style-type: none"> • One year limited warranty

WheezoMeter™ is protected by international and US patents 6,168,568; 6,261,238. Specifications are subject to change without prior notice. © 2012 iSonea Ltd. FDA Cleared CE 0483



www.iSoneaMed.com

For Product or Technical Questions: **iSonea Ltd**
1716 Ord Way
Oceanside, CA 92056, USA
Tel: 760.297.6055 Email: Service@iSoneaMed.com

For Business Inquiries: **iSonea Ltd**
P.O. Box 990
Millersville, Maryland USA 21108-9998