



PHILIPS

Children's
respiration monitor

Easy to use, automated respiration rate monitor.

Now anyone, anywhere can ascertain an accurate child's breath rate.

Pneumonia is the world's #1 infectious disease killer of children under the age of 5 (U5). Resulting in **935.000 deaths worldwide** annually. Pneumonia is one of the most solvable problems in global health and yet a child dies from the infection **every 30 seconds**.

According to the WHO **IMCI guidelines** for childhood pneumonia, a child's respiratory rate is a key vital sign in diagnosing pneumonia, and currently Health Workers visually observe and manually count how many breaths a child takes in one minute. This is a challenging task, because in practice it is difficult to register each individual breath, count while observing the child and shut out any distractions.

In support of the fight against child mortality as a result of pneumonia, Philips has developed an **affordable** respiration monitor that **automatically** and **accurately** measures the breath rate of a child under the age of 5. The Philips Children's respiration monitor has been specifically designed for use in **low resource areas**. **Making it power independent** and **robust** so it withstands and can operate in harsh conditions. It's **clinical decision support** functionality provides instant feedback, to support the care provider in determining a correct diagnosis, clearly indicating the risk of fast-breathing rate of the child, based on the WHO IMCI guidelines.

Benefits

- Anyone anywhere can ascertain an accurate breath rate.
- Requires very little training, due to its ease of operation and automation
- Power independent, robust, easy to use and highly portable
- Decision support functionality based on the WHO guidelines to diagnose fast breathing, helps health workers make an objective diagnosis that can be shared with concerned parents, improving trust and confidence.
- There is the potential benefit of the reduction of unnecessary use of antibiotics, which contributes to the rise of drug-resistant diseases.

Technical Specifications

Philips Children's Respiration Monitor

	CHW	PHW
Part number	989803197631	989803197621
Principle	Uses a 3D accelerometer with advanced signal processing to measure the specific abdominal motions related to breathing in Children under five years of age.	
Display	Liquid Crystal Display	
Accuracy	±2 Breath per minute, when measured under recommended condition.	
Measurement Range:	10 to 150 Breath per minute	
Completed Measurement	Beep sound and LED indication.	
Mode of Operation	Non-continuous.	
Rechargeable	No	Yes
Type of Protection	n.a.	Class II (while charging Mode).
Power Specifications for Charging Adapter	n.a.	Input Voltage: 100-240V @50/60 Hz, Output Voltage: 5VDC Output Current: >0.5 A.
Battery life	2000 measurements	200 measurements with every full charge
Automatic Shut-off	Approximately after Two minutes of inactivity	
Memory, measurement records	n.a.	300 measurement records
Degree of Ingress Protection	IP54 rated.	
Operating Conditions	0 °C to 40 °C; 10% to 90% RH.	
Storage Conditions (Packaged):	-20 °C to 50 °C; 10% to 95% RH.	
Dimensions (approx.):	65 x 65 x 28 mm (without belt).	
Weight (approx.):	95 gm including belt.	
Safety Compliance	IEC 60601-1 Ed3.1, IEC 60601-1-2 Ed 3, IEC 60601-1-11 Ed1.	

