



 antlia[®] Pro
Pulmonary function test device

AI-Based Oscillometry PFT Device

★★★★★ *India's First FOT Device* ★★★★★

Regulatory Certificates



Patented Design

- CDSCO License to Manufacture for Sale
- ISO 13485 Certificate
- ICMED 13485 Certificate



The Future of Respiratory Care: Overcoming Challenges through Innovation

Report & Graph

AI-Powered Features:

Test Quality Enhancement*

- Identify and eliminate artefacts and noise from lung function test data.
- Detect quality issues during testing and provide dynamic visual indicators for parameters.
- Identify incorrect test manoeuvres and recommend targeted training interventions.
- Automatically assess test quality against ATS/ERS guidelines.

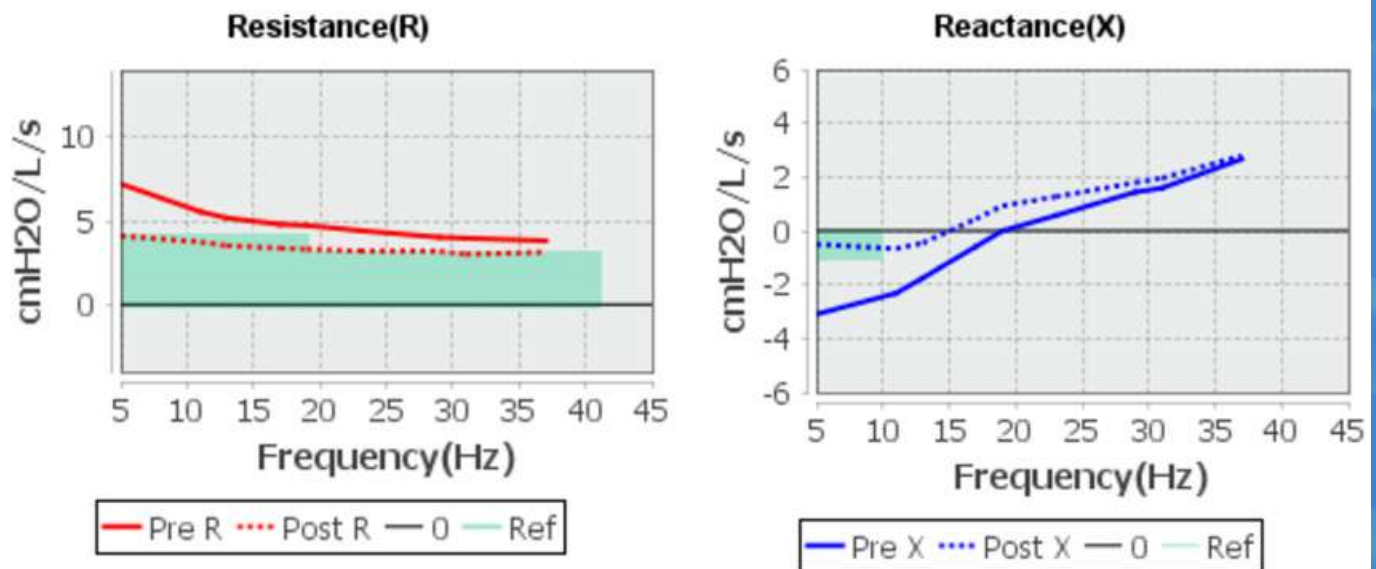
Assisted Test Interpretation**

- Generate standardised, guideline-based interpretations.
- Automatically classify disease severity.
- Identify obstructive, restrictive, and small airway dysfunction using AI-assisted pattern recognition.
- Track changes to identify disease progression, improvement, or treatment response.
- Highlight clinically significant findings and provide evidence-based recommendations.

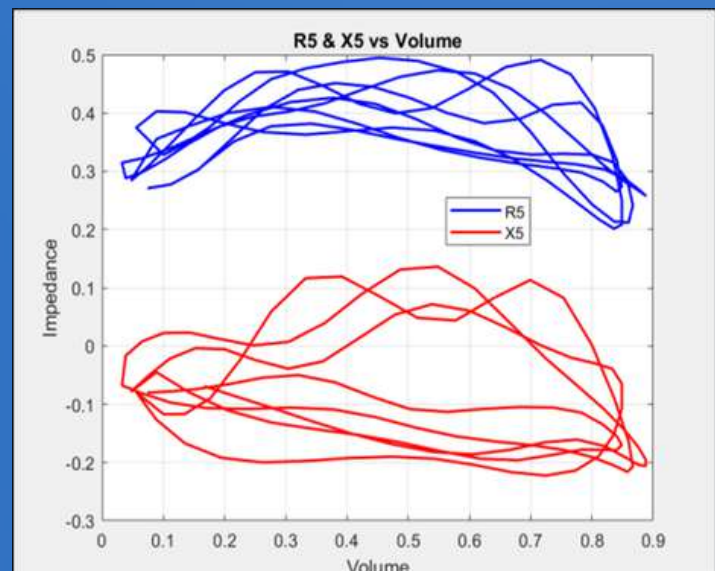
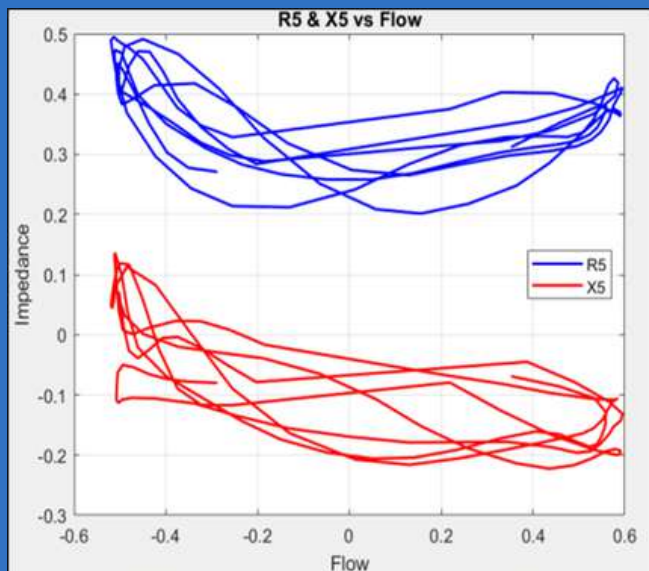
* Under Trial

** Under development(Model Training)

R and X graph:



Frequencies from 5Hz to 37Hz enables easy diagnosis for all your patients



Parameters

Parameter	Description
Z	Overall Airway Impedance at 5 and 19 Hz
R	Airway Resistance at 5 and 19 Hz
X	Reactance at 5 and 19Hz
Ax	Area of Reactance
Fres	Resonant Frequency

Parameter	Description
Vt	Tidal Volume
R/X ins and exp	Inspiration and expiration R and X (intra-breath parameters)
T ins and exp	Inspiratory and expiratory time
CoV	Coefficient of variability at R5 and Z5
RR	Respiratory Rate

Technical Specification

Flow measurement	Calorimetric
Excitation	Pseudo Random Noise (PSRN)
Mouth pressure range	+/-25 cmH2O
Pressure transducer	Piezo-Resistive
Measurement Duration	24 seconds
Testing signal mode	Mono Frequency: 5, 7, 19 Hz Multi Frequency : 5 , 11 , 13 , 17 , 19 , 23 , 29 , 31 , 37 Hz
Device Impedance <0.1 kPa/L/s (As per ERS Guidelines)	<0.1 kPa/L/s
Raw Data Signal	Volume & Mouth Pressure
Measurement principle	Forced oscillation technology
Flow Range	± 4.16 L/s
Physical Dimensions	Height: 230 mm, Width: 140 mm, Length: 240 mm
Weight	2.90 Kgs
Power Consumption	36 W
Frequency range	5-37 Hz
Calibration	Factory Calibration + auto-zeroing of the sensors before each test. Calibration check with a test object (Reference impedance); external load provided.

FEATURES & BENEFITS

► Comprehensive Lung Assessment

1. Detects Small Airway Disease with respiratory mechanics
2. Supports accurate clinical decision-making
3. Intra-breath analysis for early diagnosis & disease monitoring



► Suitable for all your patients

1. Effort-independent tidal breathing
2. Indian population-specific cut-off values
3. Wide frequency range across all age groups

► A device designed for you

1. Rapid results within minutes
2. Portable, lightweight design
3. Daily test-load verification (ATS compliant)



Contact Us



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