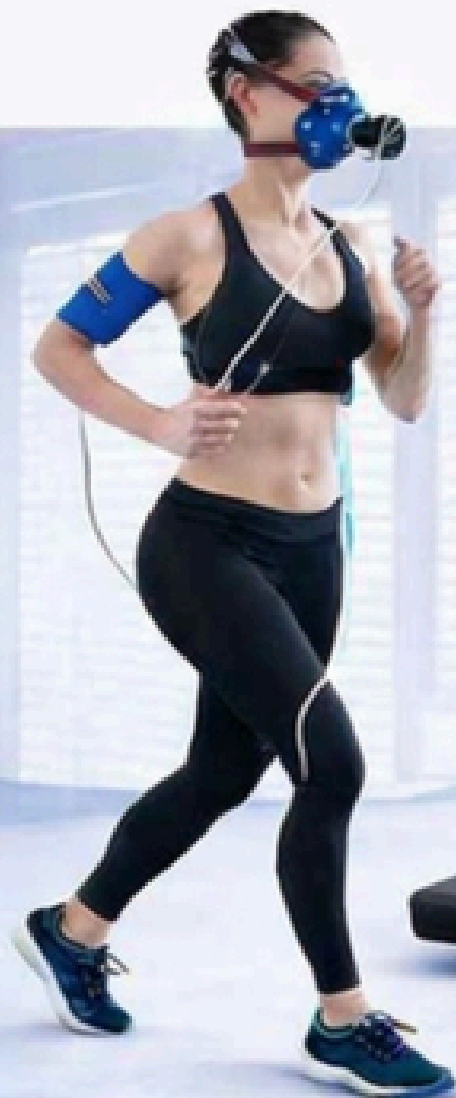




**MEDEVICE
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SpiroBT (Vmax)

The Next Generation of CPET
ATS / ERS Compliance



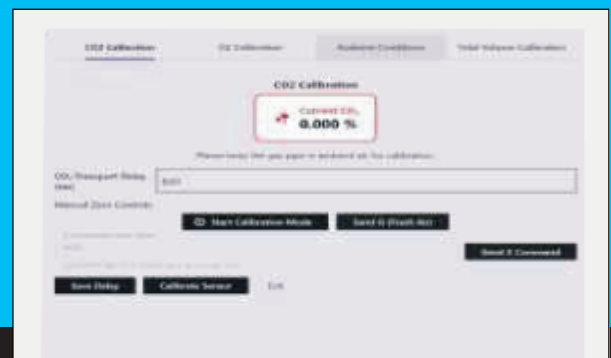
The SpiroBT Flow Sensor, integrated with the cardiopulmonary exercise testing (CPET) system, delivers direct, hardware-level measurement of flow and volume, ensuring exceptional accuracy and reliability.

The sensor is designed and rigorously tested to comply with all ATS/ERS flow and volume waveform requirements. Precision manufacturing and calibration guarantee measurement accuracy within $\pm 3\%$, meeting international clinical and research standards.

- ▶ True breath-by-breath cardiopulmonary exercise testing (CPET) for precise physiological assessment.
- ▶ Compatible with both treadmill and bicycle Ergometer systems.
- ▶ Comprehensive PDF reporting with Indian population-based reference prediction data.
- ▶ Single-channel ECG monitoring for accurate heart-rate measurement.
- ▶ Bluetooth connectivity with battery-operated functionality for enhanced mobility.
- ▶ Easy, fast, and fully assisted calibration ensuring high-accuracy measurements.
- ▶ Option to record data without exercise for baseline evaluation.
- ▶ Built-in resting protocol for assessments in a resting position.
- ▶ Optional integration with 12-channel ECG system for advanced cardiac analysis.



Raw Data Graph



Calibration

Measured: 10/01/2026 12:20 PM | Ambient: 21.8 °C 760.0 mmHg 59.0 % | Generated: 10/01/2026 12:20 PM

Necessary Activated
 Recovery at: 05:03 | Recovery phase start: 06:10

Parameter	Pred	Stage 0 (Rest)	Stage 1	Recovery	AT	% Pred
Time (min:ss)	-	00:34	04:34	07:09	06:34	-
VO2max (L/min)	2.57	2.65	1.89	2.75	2.75	107 %
VO2kg (ml/min/kg)	40.85	4.83	28.63	43.32	43.07	107 %
VE (L/min)	119.75	4.85	23.44	41.41	36.58	33 %

Report

Technical Specification

Flow	Flow Sensor	Flow BT
	Principle	Turbine Type
	Measuring Range	+ - 16l/s
	Flow resolution	6 ml
Volume	Measuring Range	0-14L
	Accuracy	2% or 15ml
Oxygen	Measuring Principle : Measuring Range : Accuracy: Resolution : Response Time :	OXI Spectrum 1-100% O2 0.1% 0.1% 100ms
Co2 Analyser	Measuring Principle : Measuring Range : Accuracy: Resolution : Response Time :	NDIR 1-20% 0.1% 0.1% 20ms
Operating Temperature	Temperature	15 c to 50 c
Breath to Breath	Yes	Yes
Software	To Measure, FVC, SVC, MVV, Spirometer Parameter Including Tidal Volume, Peak Flow, FEV, FEV 25% etc. VO2, VCO2, RER, Graph & Other CPET Parameter	Window Based
*Optional Ergometer	0 to 1000 W, Eddy Current Based, 1w load resolution	Yes
Treadmill	2.5 Kw AC Motor Dynamic Calibration, Patient Weight Capacity 225KG Heavy Duty AC Drive Motor 3HP, Single Phase Power Requirement Speed Range 25Km/h, Grade 0-22% RS232 Communication Protocol	Yes

*Technical specification subject to change without any notice



Get in Touch...!

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