

In2itive Spirometer

The In2itive™ is a powerful and versatile respiratory diagnostics solution with wireless bi-directional connectivity, enabling detailed, point-of-care spirometry testing wherever it is needed



Technical Specifications

Product	Vitalograph Model 2120 In2itive
Model	2120
Flow detection principle	Fleisch type pneumotachograph
Essential performance test limits	PEF Accuracy $\pm 10\%$ or $\pm 10\text{L/min}$ of the reading (ISO 23747:2015)
Back pressure	Less than 0.15kPa/L/second @ 14L/s , complies with ATS/ERS 2019
Volume detection	Flow integration sampling @ 100Hz
Test parameters measured	VC Test: VC, EVC, IVC, TV, IRV, ERV, IC FVC Test: VC, FVC, FIVC, FIVC/FVC, $\text{FEV}_{0.5}$, $\text{FEV}_{0.5}/\text{FVC}$, $\text{FEV}_{0.75}$, $\text{FEV}_{0.75}/\text{FVC}$, FEV_1 , FEV_{1R} , FEV_1/VC , FEV_1/EVC , FEV_1/IVC , FEV_1/FVC , FEV_1/FIVC , $\text{FEV}_1/\text{FEV}_6$, FEV_1/PEF , FEV_3 , FEV_3/VC , FEV_3/FVC , FEV_6 , PEF L/s , PEF L/min , FEF_{25} , FEF_{50} , FEF_{75} , $\text{FEF}_{0.2-1.2}$, FEF_{25-75} , $\text{FEF}_{25-75}/\text{FVC}$, FEF_{75-85} , FIV_1 , FIV_1/FVC , FIV_1/FIVC , PIF L/s , PIF L/min , FIF_{25} , FIF_{50} , FIF_{75} , $\text{FIF}_{50}-\text{FEF}_{50}$, $\text{FEF}_{50}-\text{FIF}_{50}$, MVVind , FMFT , FET , FRC , TV , RV , TLC , IRV , ERV , IC , Rind , ELA , tPEF , Text , EV , EV/FVC ,
Volume accuracy	$\pm 2.5\%$ ATS/ERS 2019, ISO 26782:2009
Voltage/frequency	Power supply: Input $100-240\text{V}$, $50/60\text{Hz}$, 0.5A Output 5V , 2A Battery: 3.7V , 2Ahr
Accuracy when operated in temperature range conditions	Flow $\pm 10\%$, Max. flow rate $\pm 16\text{ L/s}$, Min. flow rate $\pm 0.02\text{ L/s}$
Operating temperature range	ISO 26782 limits: $17-37^\circ\text{C}$ Design limits: $10-40^\circ\text{C}$
Operating humidity range	$30\%-75\%$
Ambient pressure range	$850\text{hPa}-1060\text{hPa}$
Performance standards	ATS/ERS 2019, ISO 23747:2015 & ISO 26782:2009
Safety standards	EN 60601-1:2006 +A1:2013 +A2:2021
QA/GMP standards	EN ISO 13485, FDA 21 CFR 820, SOR/98-282 & Japan's PMD Act

Dimensions	186mm x 81mm x 48mm
Weight	300g
Communications	USB & WiFi
EMR Connectivity	HL7, GDT via Vitalograph Connect
Device Classification	Ila per Annex IX of the MDD