

micro Spirometer


The micro is a compact respiratory diagnostics solution that offers simple and fast diagnostic spirometry in a lightweight, handheld device for accurate testing on the move.



Technical Specifications

Product	Vitalograph Model 6300 micro
Model	6300
Flow detection principle	Fleisch type pneumotachograph
Essential performance test limits	PEF Accuracy $\pm 10\%$ or $\pm 10\text{L}/\text{min}$ of the reading (ISO 23747:2015)
Back pressure	Less than $0.1\text{kPa}/\text{L}/\text{second}$ @ $14\text{L}/\text{s}$, complies with ATS/ERS 2019
Volume detection	Flow integration sampling @ 100Hz
Test parameters measured	VC, FVC, FEV1, FEV1R, PEF L/s, PEF L/min, FEF25-75, FEF75-85, EVC, IVC, FIVC, FIVC/FVC, FEV.5, PIF L/s, FMFT, FET, FEV.5/FVC, FEV.75, FEV.75/ FVC, FEV1/VC, FEV1/IVC, FEV1/FVC, FEV1/ FIVC, FEV1/ FEV6, FEV1/PEF FEV3, FEV3/FVC, FEV3/VC, FEV6, FEF25, FEF50, FEF75, FEF0.2-1.2, FEF 25- 75/FVC, FIV1/FVC, FIV1, FIV1/FIVC, PIF L/min, FIF25, FIF50, FIF75, FIF50- FEF50, FEF50- FIF50, MVVind, Rind, FEV1/EVC, BEV/FVC, BEV, EOTV, tRise, tHes
Volume accuracy	$\pm 2.5\%$ ATS/ERS 2019, ISO 26782:2009
Power Supply	4 x 1.5V AAA batteries (6V) 5V DC via USB 2.0
Operating temperature range	ISO 26782 limits: $17\text{-}35^\circ\text{C}$ Design limits: $10\text{-}40^\circ\text{C}$
Operating humidity range	$30\%\text{-}75\%$
Ambient pressure range	$850\text{hPa}\text{-}1060\text{hPa}$
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	142mm (length) x 81mm (width) x 24mm (height)
Weight	260g
Communications	USB 2.0 & Bluetooth 2/4
Device Classification	Ila per Annex IX of the MDD

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