lung monitor USB

Handheld device for remote lung function monitoring. Ideal for primary, secondary care, or occupational health. Produce PDF reports via Vitalograph Reports Software (included).

For chronic respiratory conditions such as COPD, cystic fibrosis, & post-transplant patients.

Technical Specifications

Product:	Respiratory Monitor lung monitor USB
Model:	4000
Dimensions:	109mm (length) x 63mm (width) x 42mm (height)
Weight:	63g (not including batteries)
Flow Detection Principle:	Stator/rotor
Accuracy:	Better than ± 3% (FEV1)
Back pressure:	Less than 0.15kPa/L/second at 14L/s
Measurement Range:	FEV1, FEV6: 0 – 9.99L BTPS
	FEF25/75: 25 – 840 L/min BTPS
Maximum test duration:	6 seconds
Power Supply:	3V (2 x 1.5V AAA batteries)
Expected Battery Life:	3 months of use at 3 tests per day (Batteries near the end of their shelf life will have reduced capacity.)
Expected Product Life:	6 years.
Operating temperature range:	17–37ºC
Operating humidity range:	30%–75%
Ambient pressure range:	850hPa–1060hPa
Performance standards:	ATS/ERS 2019, ISO 23747:2015, ISO 26782:2009
Safety standards:	EN 60601-1, EN 60601-1-11
EMC Standards:	EN 60601-1-2
QA/GMP standards:	EN ISO 13485, FDA 21 CFR 820, CMDR SOR/98-282, JPAL, MDSAP.
Communications:	USB2.0/3.0

Comparison Table

	micro BT Smart	lung monitor BT Smart	lung monitor USB	lung monitor	asma-1
Tests					
VC	✓	✗	✗	✗	✗
FVC	✓	FEV*	✗	✗	✗
FEV1	✓	✓	✓	✓	✓
FEV6	✓	✓	✓	✓	✗
FEV1/FEV6	✓	✓	✓	✓	✗
FEV1/FVC	✓	FEV1/FEV*	✗	✗	✗
FEV 25-75	✓	✓	✓	✗	✗
FEV 0.5	✓	✗	✗	✗	✗
FEV 0.75	✓	✓	✗	✗	✗
PEF	✓	✓	✗	✗	✓
Post BD	✓	✗	✗	✗	✗
Total Parameters Available	8 (of 48)	8	4	3	2
Quality Measures					
Predicted Values	✓	✗	✗	✗	✗
Personal Best Zones	✗	✓	✓	✓	✓
Quality Prompts	✓	✓	✓	✓	✓
GLI	✓	✗	✗	✗	✗
Data Exchange					
Software Developers Kit (SDK) Connectivity	✓	✓	✓	✗	✗
General Features					
Touch Screen	✓	✗	✗	✗	✗
Colour Display	✓	✗	✗	✗	✗
Internal Battery	✓	✓	✓	✓	✓
Memory	750	600	200	200	600
SDK Data Exchange Compatibility					
Windows	✓	✓	✓	✗	✗
Android	✓	✓	✗	✗	✗
iOS	✓	✓	✗	✗	✗

*FEV – Forced Expiratory Volume (up to 10 seconds). May be used as a surrogate for FVC.

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