

# micro BT Smart

Handheld full spirometry solution for remote testing. Easy integration to your telehealth solution.

For chronic conditions such as asthma, COPD, cystic fibrosis, ILD, post-transplant patients or any other respiratory monitoring.



## Technical Specifications

<b>Product:</b>	Vitalograph micro
<b>Model:</b>	6300
<b>Dimensions:</b>	83mm x 91mm x 32mm
<b>Weight:</b>	250g
<b>Memory:</b>	750 test session
<b>Flow Detection Principle:</b>	Fleisch type pneumotachograph
<b>Volume Accuracy:</b>	Better than $\pm 3\%$ or $\pm 0.05\text{L}$ of the reading. (ISO 26782:2009)
<b>Back pressure:</b>	Less than 0.15kPa/L/second at 14L/s
<b>Flow Measurement Range:</b>	Max. flow rate $\pm 960\text{ L/min}$ ( $\pm 16\text{ L/s}$ ) Min. flow rate $\pm 1.2\text{ L/min}$ ( $\pm 0.02\text{ L/s}$ )
<b>PEF Accuracy:</b>	$\pm 10\%$ or $\pm 10\text{L/min}$ of the reading (ISO 23747:2015)
<b>Operating Temperature Range:</b>	17– 37°C (ISO26782 limits), Design limits 10 – 40°C
<b>Battery Type:</b>	4 x 1.5 AAA alkaline non-rechargeable
<b>Power Supply</b>	5V USB power supplied by mini USB cable
<b>Safety Standards:</b>	EN 60601-1:2006 + A1:2013
<b>Performance standards the Vitalograph micro meets or exceeds</b>	ATS/ERS 2019, ISO 23747:2015 & ISO 26782:2009
<b>Communications:</b>	USB to PC Dual mode Bluetooth LE4.0 and Bluetooth 2.1
<b>Screen:</b>	Touchscreen colour LCD
<b>Volume Detection:</b>	Flow integration sampling @100Hz
<b>Maximum Test Duration:</b>	90 seconds
<b>Maximum Displayed Volume:</b>	10L

## Comparison Table

	micro BT Smart	lung monitor BT Smart	lung monitor USB	lung monitor	asma-1
<b>Tests</b>					
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
<b>Quality Measures</b>					
Predicted Values	✓	✗	✗	✗	✗
Personal Best Zones	✗	✓	✓	✓	✓
Quality Prompts	✓	✓	✓	✓	✓
GLI	✓	✗	✗	✗	✗
<b>Data Exchange</b>					
Software Developers Kit (SDK) Connectivity	✓	✓	✓	✗	✗
<b>General Features</b>					
Touch Screen	✓	✗	✗	✗	✗
Colour Display	✓	✗	✗	✗	✗
Internal Battery	✓	✓	✓	✓	✓
Memory	750	600	200	200	600
<b>SDK Data Exchange Compatibility</b>					
Windows	✓	✓	✓	✗	✗
Android	✓	✓	✗	✗	✗
iOS	✓	✓	✗	✗	✗

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

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