Orbit™ Specifications

Weight	226.8 grams (.5 lb)
Dimensions	109.2 x 94.0 x 43.2 mm (4.3” x 3.7” x 1.7”)
Communication Port	USB
Software Compatibility	Office Medic Version 5.5 (or later)
Environmental (Storage) Conditions	Ambient Temperature: -15 - 50° C Relative Humidity: 90% Maximum (non-condensing) Atmospheric Pressure: 700 to 1060 hPa
Power Supply	Internal: 5Vdc, ±5% 100 mA or less from the host PC USB Port
Operating Conditions	Ambient Temperature: 15 - 40°C Relative Humidity: 10 – 90% (non-condensing) Atmospheric Pressure: 700 to 1060 hPa

Measurement Method	FLOW: Mouthpiece (US Patent #4,905,709)
Range (BTPS)	FLOW: ±14 liters/second VOLUME: 0.5-8 liters
Accuracy (BTPS)	FLOW: *FEF25-75*: ±5% of indication or ±200 ml/sec, whichever is greater; *PEF*: ±10% of indication or ±300 ml/sec, whichever is greater VOLUME: FVC and FEV1: ±3% of indication or ±50 ml, whichever is greater; MVV: ±10% of indication or ±15 L/min, whichever is greater
Precision (BTPS)	FLOW: *PEF*: ±5% of indication or 150 ml/sec, whichever is greater VOLUME: *FVC and FEV1*: ±3% of indication or 50 ml, whichever is greater
Calibration	ATS 3-speed or standard calibration check
Predicted Normals	*Adult FVC/SVC*: Crapo ’81, Cherniack ’72, Morris, Knudson ’83, Roberts ’91, NHANES III ’99, ECC/ERS/Quanjer ’93 *Pediatric FVC/SVC:* Hsu ’79, Knudson ’83, Polgar ’71, Warwick ’77, NHANES III ’99, Zapletal ’87, Wang ’93, Quanjer ’95 *Adult MVV*: Cherniack ‘72 *Pediatric MVV*: Polgar ’71, Zapletal ‘87

Measuring Time	FVC: 60 seconds SVC: 60 seconds MVV: 15 seconds
Sampling Rate	125 Hz
Safety	IEC/EN 60601-1 IEC/EN 60601-1-2
Printed Scale	Flow Volume: (vertical) 5 mm/L/S, (horizontal) 10 mm/L Volume Time: (vertical) 10 mm/L, (horizontal) 10 mm/S
Parameters Measured	FVC, FEV0.5, FEV1, FEV6, FEV1/FEV6, FEV3, FEV1/FVC, FEV3/FVC, PEFR, PEFT, FEF25%, FEF50%, FEF75%, FEF25-75%, FIVC, FIV0.5, FIV1, FIV3, FIV1/FIVC, FIV3/FIVC, PIFR, FIF50%, FIF25-75%, FIF.2-1.2, FVC/FIVC, Extrapolated Volume (Ext. Vol.), EOTV, FET, MVV, RR, MTV, SVC
Languages Available	English, Spanish, French, German, Japanese, Italian, Portuguese

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