



Sensaire Specifications

Weight

Pocket 12.7 oz

Base Station 6.2 oz

Dimensions

Pocket 7" x 3 1/2" x 1 5/8"

Base Station 5" x 4 3/8" x 2 3/8"

Measurement Method

FLOW: QRS Paper Mouthpiece

VOLUME: Flow integration

Range

FLOW: ± 14 liters/second

VOLUME: Minimum of 0-8 liters BTPS

Accuracy

Complies with American Thoracic Society (ATS) Standards for Spirometry, 1994 Update.

FLOW: $\pm 5\%$ of indication or ± 200 ml/sec, whichever is greater for FEF 25-75, and $\pm 10\%$ or ± 400 ml/sec whichever is greater for PEF.

VOLUME: $\pm 3\%$ of indication or ± 50 ml, whichever is greater for FVC and FEV1.

Calibration

ATS 3-speed, or Standard calibration check

Predicted Normals

Crapo/Cherniack/Morris/Knudson 1983/Polgar/Hsu/Roberts/Warwick/ECCS

Tests Performed

FVC, Pre/Post Testing, Flow Volume Loop, MVV, SVC

Measuring Time

FVC, up to 30 seconds

Printed Scale

Flow-volume: Meets ATS requirements for graphs.

Volume Time: Meets ATS requirements for graphs.

Sample Rate and Resolution

Sample Rate: 100 samples/sec

Resolution: 3 ml/Sec

Recommended Storage conditions (in packaging)

Ambient Temperature: -20 to 50° C

Relative Humidity: 10% to 90%

Operating Conditions

Ambient Temperature: 17 to 40° C

Relative Humidity: not more than 30%-75% (non-condensing)

Power Supply

Input: 100-250 VAC

50-60 Hz

0.38A

Output: +9.0 V @ 1.9 Amp

Battery

Custom Rechargeable Nickel Metal Hydride (NiMH) Battery Pack, 1.6 Amp hours, 4.8V.

Housing

Impact resistant ABS plastic.

Program

Stored in non-volatile Flash memory.

Parameters measured

FVC, FEV0.5, FEV1, FEV1/FVC, FEV3, FEV3/FVC, PEFr, FEF25%, FEF50%, FEF75%, FEF25-75%, FIVC, FIV0.5, FIV1, FIV1/FIVC, FIV3, FIV3/FIVC, PIFR, FIF50%, FIF 25-75%, FIF.2-1.2, FVC/FIVC, PIFR, Ext.Vol., MVV, RR, MTV, SVC, FEV6, FEV1/FEV6