

EasyOne World

The portable spirometry solution for testing anytime, anywhere.



Spirometry (FVC, FVL, SVC & MVV)

The proven ultrasound technology
ndd TrueFlow

no calibration, no warm-up time, no moving parts

Immediate test quality feedback in accordance with ATS/ERS criteria

Direct printing without need of a PC

Export of pdf files and raw data (with software)

Automated Quality Control

Selectable predicted values and interpretation

Absolute hygienic solution with Spirette consumable eliminates the risk of cross-contamination

Flexible HL7 and XML interface for easy EMR integration (with software)

Free software upgrades

Powered by 2 standard AA batteries

TrueFlow
makes the difference

The original ultrasonic flow measurement is highly accurate in all flow ranges, independent of gas composition, pressure, temperature and humidity and does not require calibration during its life-time. The sensor is never in direct contact with the patient's flow. ndd TrueFlow is a hygienic and resistance-free solution.



Standards & Recommendations

Quality, Medical Devices & Electrical

EN ISO 9001, EN ISO 13485, EN ISO 14971, EN 62366, EN 62304, EN ISO 26782, EN ISO 23747, IEC 60601-1, IEC 60601-1-2

FDA

510(k) market clearance

MDD 93/42/EEC

CE marked

Associations & Institutes

ATS/ ERS 2005, NIOSH/ OSHA, SSA Disability

Languages

English, Portuguese, French, German, Italian, Spanish

Technical

Printing options

Direct to printer or with software

Data management

EasyWare, EasyWare Pro

Export

HL7, XML, GDT, with software

Data links

USB

Test storage

Up to 1,200 tests

Age range

Spirometry > 4 years

Dimensions

3.3 x 6.2 x 1.7" (H x W x D), 9 oz

Device classification

Type BF applied part

Operating conditions

Temp 0 - 40 °C / 32 - 104 °F
Rel. Humidity 0 - 95 %
Atmosph. Pressure 500 - 1060 hPa

Parameters

FVC	BEV, EOTV, FEF25, FEF2575, FEF50, FEF75, FET, FEV.5, FEV.75, FEV1, FEV1/FEV6, FEV1/FVC, FEV3, FEV6, FVC, FVC6, MEF25, MEF50, MEF75, MMEF, PEF, PEFT, to
FVL	BEV, EOTV, FEF25, FEF2575, FEF50, FEF75, FET, FEV.5, FEV.75, FEV1, FEV1/FEV6, FEV1/FVC, FEV3, FEV6, FIF25, FIF50, FIF75, FIVC, FVC, MEF25, MEF50, MEF75, MIF25, MIF50, MIF75, MMEF, PEF, PEFT, PIF, to
SVC	ERV, IC, IRV, Rf, VC, VCex, VCin, VCmax, VT
MVV	MVV, MVVtime

Predicted normal values Spirometry

GLI	Stanojevic 2009, Quanjer 2012
North America	NHANES III (Hankinson) 1999, Knudson 1983, Knudson 1976, Crapo 1981, Morris 1971 & 1976, Hsu 1979, Dockery (Harvard) 1993, Polgar 1971, Gutierrez (Canada) 2004, Eigen 2002
Latin America	Pereira 1992, Perreira 2006 & 2008, Pérez-Padilla (PLATINO) 2006, Pérez-Padilla (Mexico) 2001, Pérez-Padilla (Mexico, Pediatrics) 2003, Chile 2010, Chile (Pediatrics) 1997
Europe	ERS (ECCS, EGKS, Quanjer) 1993, Zapletal 1977, Zapletal 2003, Rosenthal 1993, Austria 1988, Austria 1994, Sapal-dia 1996, Roca (Spain, SEPAR) 1982, Garcia-Rio (SEPAR) 2013, Vilozni 2005, Falaschetti 2004, Klement (Russia) 1987
Europe Scandinavia	Hedenström 1985 & 1986, Gulsvik (Norway) 1985, Berglund Birath (Sweden) 1963, Langhammer (Norway) 2001, Finnish 1982 (1998), Nystad 2003
Australia	Hibbert 1989, Gore Crockett 1996
Africa, Asia	Ethiopia 1985, JRS 2001

Flow/Volume Sensor

Type	Ultrasonic transit time
Range	± 16 l/s
Resolution	4 ml/s
Accuracy	± 2% or 0.02 l/s
Volume	± 2% or 0.050 l
Flow	± 2% or 0.020 l/s
PEF	± 5% or 5 l/min
MVV	± 2% or 0.050 l
Resistance	~ 0.3 cm H ₂ O/l/s
Sample rate	400 Hz

Electrical and Environmental requirements

Power supply	2 AA batteries approx 400 tests
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