Medical Technologies

Inspiring innovation. Every day.

EasyOne Air

All the portable advantages, one connected solution

Spirometry
(FVC, FVL, Tidal FVC, Tidal FVL, SVC & MVV)

The proven ultrasound technology **ndd TrueFlow**

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

Large color touchscreen

Easy navigation

Long-term stable calibration

Rechargeable battery: >100 tests with one charge

Bluetooth connectivity: Real-time data transfer

Flexible use: Portable or PC mode

Real-time animated incentives

Proven integration with top EMR/EHR systems

TrueFlow *makes the difference*

ndd's unique ultrasonic flow measurement is highly accurate in all flow ranges, independent of gas composition, pressure, temperature and humidity. ndd **TrueFlow** is a resistance-free solution that does not require calibration during its lifetime.

***EasyOne* Connect**

ndd's connectivity engine offers a comprehensive set of default configured HL7 and XML interfaces. With one database and one platform for all EasyOne point-of-care solutions, data management has never been easier.

Standards & Recommendations

Quality, electrical, medical devices	IEC 60601-1, IEC 60601-1-2, IEC 62304, IEC 62366, ISO 13485, ISO 14971, ISO 26782, ISO 23747
FDA	510(k) market clearance
MDR (EU) 2017/745	CE-marked
Standards & institutes	ATS/ERS 2005 spirometry standard, ATS/ERS 2019 spirometry standard, ATS/ERS 2022 interpretation strategies, NIOSH, OSHA, SSA Disability

Languages – User Interface

English, Danish, Dutch, French, German, Italian, Norwegian, Polish, Portuguese, Russian, Spanish, Swedish

Technical Specifications

Printing options	Direct to printer or with EasyOne Connect software
Data management	EasyOne Connect (SQLite, MS SQL Server)
Export/EMR	HL7, XML, GDT, with EasyOne Connect software
Data links	USB, Bluetooth
No. of tests	>10,000 tests
Age range	Spirometry ≥4 years
Dimensions	87 x 155 x 36 mm, 356 g 3.4 x 6.1 x 1.4'', 13 oz
Device classification	Type BF applied part
Operating conditions	Temp 0-40 °C / 32-104 °F Rel. humidity 5-90% Athmosph. pressure 700-1060 hPa
Power supply	Rechargeable lithum-ion battery, USB power supply

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Parameters

FVC	ATI, BEV, EOTV, FEF10, FEF25, FEF25-75, FEF25-75_6, FEF40, FEF50, FEF50/FVC, FEF50/VCmax, FEF60, FEF75, FEF75-85, FEF80, FET, FET25-75, FEV.25, FEV.5, FEV.5/FVC, FEV.75, FEV.75/FEV6, FEV.75/FVC, FEV.75/VCmax, FEV1, FEV1/FEV6, FEV1/FVC, FEV1/FVC6, FEV1/VC, FEV1/VCmax, FEV1Q, FEV3/FVC, FEV3/VCmax, FEV3, FEV6, FVC, MEF20, MEF25, MEF40, MEF50, MEF60, MEF75, MEF90, MMEF, MTC1, MTC2, MTC3, MTCR, PEF, PEFT, t0, VC, Vcmax
FVL	ATI, BEV, CVI, E50/I50, EOTV, FEF10, FEF25, FEF25-75, FEF25-75_6, FEF40, FEF50, FEF50/FVC, FEF50/VCmax, FEF60, FEF75, FEF75-85, FEF80, FET, FET25-75, FEV.25, FEV.5, FEV.5/FVC, FEV.75, FEV.75/FEV6, FEV.75/FVC, FEV.75/VCmax, FEV1, FEV1/FEV6, FEV1/FIV1, FEV1/FIVC, FEV1/FVC, FEV1/VC, FEV1/VCmax, FEV3/FVC, FEV3/VCmax, FEV1Q, FEV3, FEV6, FIF25, FIF 25-75, FIF50, FIF50/FEF50, FIF75, FIV.25, FIV.5, FIV1, FIVC, FVC, MEF20, MEF25, MEF40, MEF50, MEF60, MEF75, MEF90, MIF25, MIF50, MIF75, MMEF, MMIF, MTC1, MTC2, MTC3, MTCR, PEF, PEFT, PIF, t0, VC, VCmax
SVC	ERV, IC, IRV, Rf, VC, VCex, VCin, VCmax, VT
MVV	MVV, MVV6, MVVtime, Rf, VCext, VT

Predicted Normal Values – Spirometry

GLI	Stanojevic 2009, Quanjer 2012, Bowerman 2023 (Global GLI)
North America	NHANES III (Hankinson) 1999, Knudson 1983, Knudson 1976, Crapo 1981, Morris 1971 & 1976, Hsu 1979, Dockery (Harvard) 1993, Dockery (Harvard) 1993, Polgar 1971, Gutierrez (Canada) 2004, Eigen 2001, Cherniak 1972
Latin America	Chile 2010, Chile (Pediatrics) 1997, Pereira 1992, Pereira 2006/2008, Pérez-Padilla (PLATINO) 2006, Pérez-Padilla (Mexico) 2001, Pérez-Padilla (Mexico, Pediatrics) 2003
Europe	ERS (ECCS, EGKS, Quanjer) 1993, Garcia-Rio (SEPAR) 2013, Falaschetti 2004, Forche (Austria) 1988 & 1994, Klement (Russia) 1986, Roca (Spain, SEPAR) 1982, Rosenthal 1993, Sapaldia (Switzerland) 1996, Vilozni 2005, Zapletal 1977, Zapletal 2003
Europe Scandinavia	Hedenström (Sweden) 1985/1986, Gulsvik (Norway) 1985, Berglund Birath (Sweden) 1963, Langhammer (Norway) 2001, Finnish 1982/1998, Nystad 2002, Koillinen 1998, 2001, Kainu (Finland) 2016
Australia	Hibbert 1989, Gore Crockett 1995
Asia	Chhabra (India) 2014, Dejsomritrutai (Thailand) 2000, (Indonesia) 1992, IP (China, HongKong) 2000 & 2006, JRS 2001 & 2014
Africa	Mengesha (Ethiopia) 1985

Flow/Volume Sensor

Measurement principle	Ultrasonic transit-time
Measuring range	± 16 l/s
Flow resolution	4 ml/s
Flow accuracy (except PEF)	± 2% or 0.020 l/s
PEF accuracy	± 5% or 0.200 l/s
Volume accuracy	± 2% or 0.050 l
MVV accuracy	± 5% or 5 l/min
Resistance	<1.5 cm H20/l/s at 14 l/s

Order Information

Order number	Product
2500-2	EasyOne Air

Order Information

Order number	Product
5050-50	EasyOne FlowTube, standard box of 50 pcs.
5050-200	EasyOne FlowTube, standard box of 200 pcs.
5050-500	EasyOne FlowTube, standard box of 500 pcs. Not available in all countries
2030-2	ndd calibration syringe 3L with EasyOne FlowTube CalCheck adapter
2500-50.1	EasyOne Air USB cable B-micro (cradle to printer)
2500-50.5	EasyOne Air power supply with adapters