



o 3 operating modes:

DATOSPIR

- Primary Care, Occupational Health or Diagnostic.
- Transducers: Turbine, Disposable or Fleisch.
- Spirometry quality control program.
- Connectivity to the Internet for sending tests and remote monitoring.
- Optional modules: SpO₂, MIP-MEP, Sniff and electronic weather station.

Creating the future

Sibelmed

⊷C+ USB

🖇 Bluetooth

Ethernet

HL7

DATOSPIR TOUCH · spirometer DESIGNED TO MEET YOUR NEEDS

OPERATING MODES	Occupational Health	Primary Care	Diagnostic
FVC (Forced Vital Capacity)			
VC (Slow Vital Capacity)			
MVV (Maximum Voluntary Ventilation)			
Bronchodilation (Post)			
Bronchoconstriction (Bronquial challenge test)	•	•	
Parameter and graph selection (Customization)			
Flow/Volume and Volume/Time graphs (F/V and V/T)			
Simultaneous F/V and V/T graphs	•	•	
Maneuvers overlapping			
Report graphs in ATS/ERS format			
Save/print 3 maneuvers			
Print 3 PRE maneuvers (Parameters and graphs)			
Spirometry quality control			
Help screens on all the menus			
End of maneuver acoustic signal			
Time bar incentive			
Volume incentive			
Pediatric incentive			
Test time control			
Miller diagnosis			
Snider, Kory & Lyons diagnosis			
NLHEP (Ferguson) diagnosis			
ATS/ERS (Pellegrino) diagnosis			
Import of work list from software*			
Export data to HIS (Health Information System)			
Calibration program			
Self-check program			
Included Optional Not available *Available in 2012			

Occupational Health Mode (OC): Intended for occupational health clinics and insurance companies. Performs FVC and bronchodilation tests quick and easy for early detection of work-related lung diseases.

Primary Care Mode (PC): Intended for Primary Care centers. Performs the main tests with interactive help in order to obtain spirometries with similar quality to the ones performed at a specialized center (Spirometry quality control). Helps to detect and follow-up most common respiratory diseases such as Asthma or COPD.

Diagnostic Mode (DG): Intended for Pulmonary Function Laboratories specialized in lung diseases, providing the highest spirometry test control. It is the most complete mode that includes Bronchoconstriction Test, Occupational Health and Primary Care modes among other options.

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DATOSPIR TOUCH · spirometer

EXPERIENCE IS OUR GUARANTEE

RDI

The DATOSPIR touch spirometer has been designed by the **RDI** department of **SIBEL S.A.** with the collaboration of the Pneumology Department of the "**Hospital de Ia Santa Creu i Sant Pau de Barcelona**" and the **Biophysics and Bioengineering Unit of the University of Barcelona**, fulfilling the standardization criteria of the **ATS/ERS TASK FORCE 2005 & SEPAR**.

Quality control program

• Spirometry quality control program:

DATOSPIR touch includes an automatic function for spirometry quality control, based on the recommendations of the **National Lung & Health Education Program** (NLHEP).

QC Prompts: Helps the technician to provide good instructions to the patient in order to obtain high quality spirometry tests. At the end of a maneuver, an on-screen notification will inform of its acceptability.

QC Grades: At the end of the test, a quality grade from A to F will be shown to indicate the reliability of the results, according to the NLHEP criteria.

• Accuracy verification program:

ATS/ERS 2005 recommends to check periodically volume spirometers.

In order to check that the transducer is measuring correctly, the spirometer includes a simple verification procedure, to be performed in a few seconds if required.

Main features:

- High resolution color touchscreen.
- Internal printer.

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- Rechargeable battery.
- 3 operating modes:
- Primary Care, Occupational Health or Diagnostic.
- Spirometry quality control program: quality grades for tests, accuracy verification, and calibration program.
- \bullet Modules: SpO2, MIP-MEP, Sniff and electronic weather station
- Database with more than 3000 tests with graphs
- Tests: FVC, VC, MVV, Bronchodilation, Bronchoconstriction.
- Simultaneous F/V and V/T graphs.
- Adult and pediatric incentive graphs.
- On-screen help.
- Integrated temperature sensor.
- Connectivity via USB, BLUETOOTH, or ETHERNET*.
- Interoperability compatible with HL7 (spirometry CDA)**.
- Suitable for telemedicine.
- PIN available (In compliance with the European standards for data protection, 95/46/EC).

*Ethernet: Connectivity to the Internet for sending tests by e-mail and for remote data monitoring.
**HL7: Health Level Seven is an international standard for the interoperability of

^{**}HL7: Health Level Seven is an international standard for the interoperability of health information systems. (With W20s software) CDA: Clinical Document Architecture.

Transducers







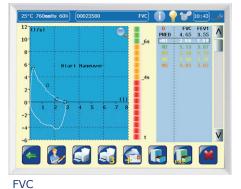




DATOSPIR TOUCH · spirometer INNOVATION AND TECHNOLOGY







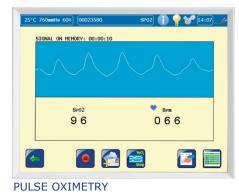
CUSTOMIZATION

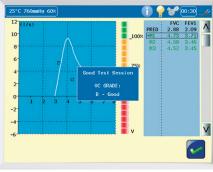


QWERTY KEYBOARD



PEDIATRIC INCENTIVE





QUALITY CONTROL

DATOSPIR touch spirometer 25ºC 760mmHg 60% | |D: 1 DILAT. FVC 10:55 12 (1/s) FVC FEV1 PRED 4.37 3.81 PRE 5.00 4.57 Λ 87(1) 10 7 6 5 4 4 2-3 2 1 0-2 4 6 8 10 12 14 16 Ó V 45 65 🗲 🚺 🔄 🔙 Sibelmed

DATOSPIR TOUCH · spirometer OPTIONAL MODULES · SOFTWARE

Pulse oximetry

DATOSPIR touch may incorporate a module dedicated exclusively to taking oxygen saturation data and plethysmographic pulse. This option allows you to take pulse oximetry measurements independently or during a spirometry test. It also allows you to visualize the plethysmographic wave in real time and carry out occasional measurements of oxygen saturation (SpO₂) and Pulse Rate (PR) or long-term studies (approximately 8 hours), specially designed for OSAS screening or in any other situation.



Electronic Weather Station

The electronic weather station is a module of the spirometer that measures atmospheric pressure and humidity.

DATOSPIR touch has a built-in temperature sensor as a standard accessory.

The Plug & Play technology of the optional modules allows you to upgrade the spirometer easily by yourself.

W20s software

SIBELMED W20s is a powerful software for the transfer, analysis, storage and/or registration of spirometric signals which operates on Microsoft Windows[®].

It is compatible with all DATOSPIR spirometers, and its operation can be in real or deferred time, depending on the characteristics of the spirometer. It includes, among other functions:

- Patient DB management.
- FVC, VC, MVV tests.
- Bronchodilation tests.
- F/V and V/T graphs.
- Parameter selection.
- Auto diagnosis selection.
- Patient's trend graph.
- Printing reports set up.
- Graphic display, with incentive tests for children and adults.
- Pulse oximetry (SpO₂) and Maximum Pressures Modules (MIP-MEP).
- Compatible with HL7(spirometry CDA). Available in 2012

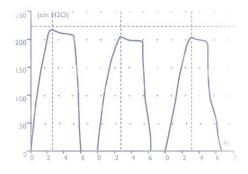
Bronchoconstriction

The bronchoconstriction module is an option available with the DATOSPIR touch spirometer. It has the possibility of performing the test with two different methods:

- Normal or continuous method: It consists of administering a certain concentration of medication to a patient for a specified quantity of time.
- **Short method**: It consists of administering a patient a certain number of inhalations of a certain concentration to a patient.

MIP-MEP and Sniff

DATOSPIR touch has an external Maximum Respiratory Pressures module available. It allows measurement pressures ± 295 hPa (up to ± 300 cmH₂O) both during inspiratory and expiratorion tests, and has several reference values which can be configured by the user. With the SNIFF probe, you can also take the measurement of maximum nasal pressures.



■● FVC WITH INCENTIVE

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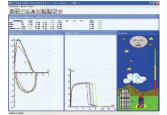
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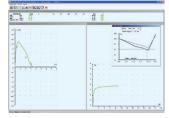
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BRONCHOCONSTRICTION



PULSE OXIMETRY





DATOSPIR TOUCH · spirometer

MODELS		Easy		Diagnostic		
	D	т	F	D	т	F
TRANSDUCERS						
Disposable		•	•		•	•
Turbine	•		•	•		•
Fleisch	•	•		•	•	
OPERATING MODES						
Primary Care						
Occupational Health						
Diagnostic						
DATABASE						
Database >1,000 tests with graphs						
Database >3,000 tests with graphs	•	•	•			
SOFTWARE						
W20s spirometry software license*						
CONNECTIVITY / INTEROPERABILITY						
USB to external printer and PC						
Ethernet	•	•	•	•	•	•
HL7 (spirometry CDA)**	•	•	•	•	•	•
Bluetooth	•	•	•	•	•	•
MODULES						
Bronchoconstriction	•	•	•			
Electronic Weather Station	•	•	•			
Pulse oximetry	•	•	•	•	•	•
MIP-MEP	•	•	•	•	•	•
Sniff	•	•	•	•	•	•
ACCESSORIES						
Thermal Paper 110 x 50 mm						
Reusable mouthpiece						
Cardboard mouthpiece (25u)						
Disposable transducer (25u)						
USB cable for PC / printer						
Nose clip						
External power supply						
User manual						
Rechargeable battery				-		
Calibration syringe						
Carrying bag						

Optional -- Not included *Interoperability compatible with HL7 (spirometry CDA) *Available in 2012

Technical Specifications

Flow transducer: Fleisch, turbine or disposable (Lilly) Measurement range (BTPS): Flow 0 ± 16 l/s; Volume 0 to 10 l Accuracy (BTPS): Flow 5% or 200 ml/s; Volume: 3% or 50ml (ATS/ERS) Dynamic resistance: <1.47 hPa (<1.5 cmH₂0) / (l/s) at 14 l/s Display: 640 x 480 px and 5.7 inch high resolution color VGA touchscreen Printer: 112 mm thermal graphic printer Rechargeable battery: Ni-Mh 10.8V 2500mAh. Duration 1.5h approx. No. of maneuvers per patient: 8 FVC, 8 VC, 8 MVV Operating Temperature-Humidity: 5 to 40°C. < 85% (without condensation) Power supply: 100 to 240V, 50 to 60Hz Power: 30W Dimensions: 195 x 270 x 100 mm Weight: 1.7 kg Storage temperature: -20°C to 70°C Directive: 93/42/CEE on Medical Devices, Class IIa Product Standards: EN 60601-1:2006, EN 60601-1-2:2007, EN 60601-1-6:2007, EN ISO 10993-1:2009, EN ISO 23747:2009, EN ISO 26782:2009, EN 62304:2006, EN 62366:2008, EN 1041:2008, EN 980:2008, EN ISO 14971:2009, EN ISO 9919:2009 SIBEL S.A., Rosselló 500, 08026 Barcelona (SPAIN) Domestic Sales: Tel. +34 93 436 00 08 e-mail: comercial@sibelmed.com International Sales Office: Tel.+34 93 436 00 07 e-mail: export@sibelmed.com After Sales Service: +34 93 433 54 50 e-mail: sat@sibelmed.com Fax: +34 93 436 16 11 Ang**e** SIBEL S.A. is part of Sibe www.sibelmed.com • www.sibelgroup.com



SIBEL S.A. reserves the right to modify the technical specifications without prior notice.

Parameters

FVC / Bronchodilation • FVC (I)

- FEV1 (I)
- FEV1/FVC (%)
- PEF (l/s)
- FEF50%(I/s)
- FEF25-75% (l/s) • FEV6 (I)
- FEV1/FEV0.5 (-)
- PEFT
- Vext (I) • FIVC (I)
- FIF50%
- FEF50/FIF50
- QC Grades
- FEV.5 (1)
- FEV3 (I)
- FEV.5/FVC (%)
- FEV3/FVC (%) • FEV1/VC (%)
- FEV1/FEV6 (%)
- FEV1/PEF (%)
- FEV1/FIV1 (-) • PEF/PIF (-)
- FEF25% (l/s)
- FEF75% (I/s)
- FEF75-85% (I/s)
- FET25-75 (s)
- FET100 (s) • FIV1 (I)
- FIV1/FIVC (%)
- PIF (l/s)
- MTT (s)
- MVVInd (l/min)
- COPD Index (%) • Lung age (years)
- ODI-3 • ODI-2

• POLGAR-WENG

PEREZ – PADILLA

• CRUZ-MORALES

• GOLSHAN

CANDELA

• GARCIA RIO

VC • VC (I)

• TV (I)

• ERV (I)

• IRV (I)

• IC (I)

• Ti (s) • Te (s)

• Tt (s) • Ti/Tt (%)

MVV

• FVC (1)

• FFV1 (I)

PEF (l/s)

PDx

Sp0₂

• MVV (I/min)

• Br./min (Br/min)

• FEF25-75% (l/s)

• Maximum SpO₂ (%)

• Average SpO₂ (%)

• Minimum SpO₂ (%)

• SpO₂ Std Dev (%)

Maximum PR (BPM)

• Average PR (BPM)

• PR Std Dev (BPM)

Minimum PR (BPM)

Bronchoconstriction

 Test time (hh:mm:ss)

• HANKINSON - NHANES III

• CT90 (%)

• CT80 (%)

• CT70 (%)

• ODI-4

- References
- SEPAR
- FRS
- KNUDSON
- CRAPO
- ZAPLETAL
- MORRIS
- AUSTRIA
- GUTIERREZ
- PLATINO* CASTRO-PEREIRA *Available in 2012

Ask for a free spirometry training course.





Point of Care Diagnostics