SentrySuite®
software platform for intelligent respiratory diagnostics
Keep the overview without switching programs. All important steps; calibration, patient data entry, measurements, interpretation and reporting can be navigated within ONE screen.

SentrySuite 360° – one screen, all in

- Quick change to different levels like Pre, Post, etc.
- Clear overview about applied medication
- Quickly view, print or store reports
- Available in 16 languages
- Direct access to calibration programs
- All test results in one adjustable table
- All important graphs in one view
- Color-coded classification bar
- Quick patient data access
- Easily switch between measurement programs
- Switch into Edit Mode
- Detailed information about quality and repeatability of the test according to ATS/ERS
- Automated interpretation with a choice of different authors
- Ease-of-use measurement concept
SentrySuite supports a comprehensive list of PFT and CPET measurements

Measurement capabilities:
- Slow Spirometry
- Forced Spirometry
- MVV
- Bronchial Challenge Testing
- Body Plethysmography
- FRC $N_2$ Washout
- FRC HE Rebreathing
- SB Diffusion Real-time
- SB Diffusion Intrabreath
- NO Diffusion
- Rocc
- Impulse Oscillometry (IOS)
- Rhinomanometry
- $P_0.1$
- MIP/MEP
- SNIP
- Compliance
- Resting ECG
- Stress ECG
- CPET breath-by-breath
- CPET High/Low FIO$_2$
- REE Canopy

Whether the MasterScreen series or the new Vyntus® series, they are all powered by SentrySuite – from small PC spirometers to high-end PFT to ECG and CPET devices.

All PFT measurement programs show the same graph and table arrangement with a consistent user interface. Intuitive operation and quick learning of new measurements are guaranteed.
Guidance and Quality
Coaching for operator and patient

Forced Spirometry
- Colored guidance bar for in-test exhalation time and plateau recognition
- Check marks for spirometry end-of-test criteria
- Online breathing curves

Body Plethysmography
- Colored stability bar for VT, BF, sRaw and FRCpleth during body plethysmography
- FRCpleth notification for reproducibility
- Breath-hold timer and mouth pressure control
- Online textual guidance ideal for new personnel

CO Diffusion SB Realtime
- Adjust the target scale to your patient needs.

Animation incentives
Choose from 10 different patient animations for forced spirometry.
SentrySuite Quality Assurance–approved results

SentrySuite supports biologic control testing with a separate BIO QC database. The BIO QC data is easily identified and separated out for trending and further analysis. According to the ATS/ERS guidelines, tests should be performed on a “standard subject”.

Biological Control

With SentrySuite Quality Management you can validate your measurement device using calibrated syringes, FRCpleth or DLCO simulators. Pre-defined special SeS QM patients automatically switch-off BTPS compensation and correct appropriately for mechanical dead space.

Mechanical Quality Control
Networking
The united data of SentrySuite

Devices powered by SentrySuite Software

Older Devices
Renew your lab step by step. Vmax® Encore or JAEGER® devices running JLAB Software connect to the SentrySuite database.

Physician’s review workplace
Use your existing network environments: client-based, web-based, Citrix.
Central Patient Database and HIS Interface


One central patient database, so many advantages:

- One-time patient data entry saves time
- Several measurements from different devices on one single report
- Measure spirometry one time only and use it for further measurements like SB Diffusion or CPET
- Avoid duplication of effort — changes or creation of new reports, layouts, predicted sets are globally deployed
- Automatic backup secures important patient data

Connect your cardiopulmonary lab with your HIS using SentryConnect

The powerful interoperability solution. Create your individual solution. Our experienced IT specialists are there for you every step of the way.

- Easily retrieve patient data from your HIS and send back the measurement results
- HL7 messaging with discrete data and PDF graphics providing full visual reporting to clinicians
- Use orders with worklists
- Modules for advanced tasks like billing
- GDT interface for praxis systems
Save time with the workflow driven physician’s review tool

With SentrySuite, technician and physician work hand in hand

The technician performs the measurement and saves the proper report.

The physician sees all visits with their associated reports for interpretation.

Flexible workflow status design allows for optional steps such as a preliminary interpretation by a fellow, with subsequent confirmation or revision by the attending physician.

Apply filters to create individual work lists.
Review Tool
A standard with SentrySuite

- **Ultra-fast report view** with results on the left and interpretation on the right
- Customized interpretation templates and macros
- Electronic signature
- Automated Send-To-HIS functionality
- Status management
- Also available as web-based solution named SentrySuite Mobile Review
Tools go hand in hand with the workflow

<table>
<thead>
<tr>
<th>Scoring</th>
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<tbody>
<tr>
<td>SentrySuite offers all important parameter related scores; %Predicted, Lower Limit, Upper Limit, Z-Score, Standard Deviation</td>
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<tr>
<th>Classification</th>
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<td>Each measurement program shows a classification bar indicating the possible limitation</td>
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<tr>
<th>Interpretation Templates</th>
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<td>Create your own templates with macros</td>
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<th>Automatic Interpretation</th>
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<th>Individual Bar Graphs</th>
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<tbody>
<tr>
<td>Create your own interpretation bar with the flexible Report Designer</td>
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</tbody>
</table>

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### Classification for Obstruction

- **Severe**
- **Moderate**
- **Mild**
- **Normal**

### Classification for Restriction

- **Very Severe**
- **Severe**
- **Moderate**
- **Mild**
- **Normal**

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### Tools

<table>
<thead>
<tr>
<th>FVC</th>
<th>L</th>
<th>Quantr...</th>
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*Error: ATS ERS 05*
Trending—monitor patient results over time

Trending reports are standard in SentrySuite. Show your long term data with one click for any parameter.
Questionnaires
Digitally integrated into SentrySuite—paperless and mobile solutions

Collect patient answers electronically and integrate them seamlessly into the SentrySuite database. The completed questionnaires are saved into the patient’s database and can become part of your report.

Choose from our standard questionnaires or create your own with the optional Questionnaire Designer with six different question types.

SentrySuite even brings scoring functionality to your questionnaires.

Vyntus® QUESTIONNAIRE App
Go mobile with tablet or phone

- Mobile multi-platform—IOS or Android
- Multilingual and intuitive menu navigation
- Secure communication
- Integration of patient image
Blood gas online connection

Connect your blood gas analyzer with SentrySuite

- Automate import and storing of blood gas measurements into the SentrySuite patient data record
- PFT / CPET and blood gas results on one report ready for interpretation
- Supports many types of blood gas analyzers

Offline data input

Offline data input—a standard in SentrySuite

Extend and feed your SentrySuite database with further external measurements like exhaled NO, lactate values and blood gases.

1. Create a new parameter set or use implemented parameter sets like blood gases

2. Type in and save your measurement results into the SentrySuite database

3. Interpret, view and print together with your PFT / CPET data on one common report

Example of a spirometry report showing also an offline typed in Nitric Oxide measurement
Clinical research

Sentry Data Cube

Access your lung function data for clinical research and statistics using the Sentry Data Cube.

Easy Query Builder user interface

- Direct output into Microsoft Excel® or others
- Profit from various table configurations
- Customize your query and output tables

SentrySuite provides access to your patient data for clinical research.

From SentrySuite Query Builder to Excel® Outcome
SentrySuite security

Data security and access control are the keys to protecting health information. SentrySuite offers several security features and comprehensive user administration.

Three steps to secure your patient data:

1. AUTHENTICATION

SentrySuite offers comprehensive settings for your password protection including the use of Single Sign On and Active Directory linking through LDAP.

2. AUTHORIZATION

The SentrySuite program User Administration allows easy to create user and user groups with their assigned rights. Make sure that only authorized users have access to the different sub programs.

3. AUDIT

The program Log File Viewer reports all proceeded steps within the SentrySuite Software with their appropriate user.