RESTECH
RESPIRATORY TECHNOLOGY

Instructions for Use

RESOLVE

(ref: RT1104)

Web application for the visualization and organization of respiratory parameters

Revision 4 – April 2025
Software version: 1.4.0

CE

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Notes

Names of persons mentioned in the context of this document are fictitious and any resemblance to living or deceased persons is purely incidental and not intended.
In case of ambiguities and/or errors, the English version of this manual is to consider the original.

Declaration of conformity

The present device is classified as a medical device *class I* according to the EU MDD 93/42.
The device has been designed in accordance with the requirements of the IEC EN 62304:2006+AMD1:2015.

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CE

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Symbols in the Instruction Manual

Symbols for notes on safety

Please note that specific passages of this Instruction Manual are clearly marked as safety notes.



Caution indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.



Note indicates important or useful information on use.

Other symbols / icons

Additional icons are reported on the device and used in the Instruction Manual:

Where you find it	Symbol	Meaning
Device Labeling		Manufacturer
	CE	CE Mark
		Consult Instruction Manual

List of abbreviations

BMI	Body Mass Index
FEV_1	Forced Expiratory Volume in the first second
FOT	Forced Oscillation Technique
FVC %pred	Forced Vital Capacity Value as a percentage of the predicted
RR	Respiratory Rate
Rrs insp	Mean Inspiratory Resistance
SpO_2	Peripheral oxygen saturation
T	Temperature
Ve	Ventilation
Vt	Tidal Volume
Xrs insp	Mean Inspiratory Reactance
ΔXrs	Difference Between Mean Inspiratory and Mean Expiratory Reactance at 5 Hz

Descriptive Information

Indications for Use

RESOLVE is a software intended to display and organize data of non-vital parameters related to the respiratory system and collected with medical devices as a support for clinical decision making. RESOLVE is designed to be used by pulmonologists, general practitioners, nurses, respiratory therapists, laboratory technologists, medical researchers, similarly trained personnel in hospitals, clinics, private physician offices and providers of home care and remote patient monitoring services.

Description of the device

RESOLVE is a Software as a Medical Device (SaMD) that is used to store, visualize and organize data from the measurements performed with medical devices, i.e., from Resmon PRO DIARY (ref. RT1101, RESTECH Srl, Italy) and from FIRST.HOME (ref. RT1103, RESTECH Srl, Italy). RESOLVE collects data sent by the associated devices. RESOLVE does NOT make any measurement or diagnosis.

General precautions

- Read this manual entirely before using RESOLVE.
- In case RESOLVE displays errors that are not described in this Instructions for Use, contact the manufacturer (see section *User Assistance Information*).
- The operator, either



Caution! Failure to observe the precautions listed below may cause risks for the patient.



Caution! The operator, either in its manger or monitoring role (see section Roles), is responsible of protecting any information exported or printed from RESOLVE (including technical logs).



Caution! The operator's facility is responsible for network security inside its IT network.



Caution! The operators are responsible for protecting the confidentiality of their access user credentials.



Caution! Use the web app in an environment that guarantees good visibility of the monitor.



Caution! Logout from the web app when you are done using it to prevent unauthorized access to patient information.

Setup

Compatible Web Browsers

RESOLVE is a web application that runs on a web browser via an internet connection.
You do not need to install anything on your local computer.
RESOLVE has been successfully tested with the following web browsers:

- Google Chrome v90.x
- Mozilla Firefox v78+



Note: your computer must be connected to the Internet to use RESOLVE.

Account access to RESOLVE

Login

Open the browser of your choice and access the following website:

https://www.resolve-portal.it

You should have received a welcome email with object *Resolve activation: your temporary password* that contains the aforementioned link, your username and a temporary password for activating your account.
Once you open the link, the login screen will appear. (Figure 1)

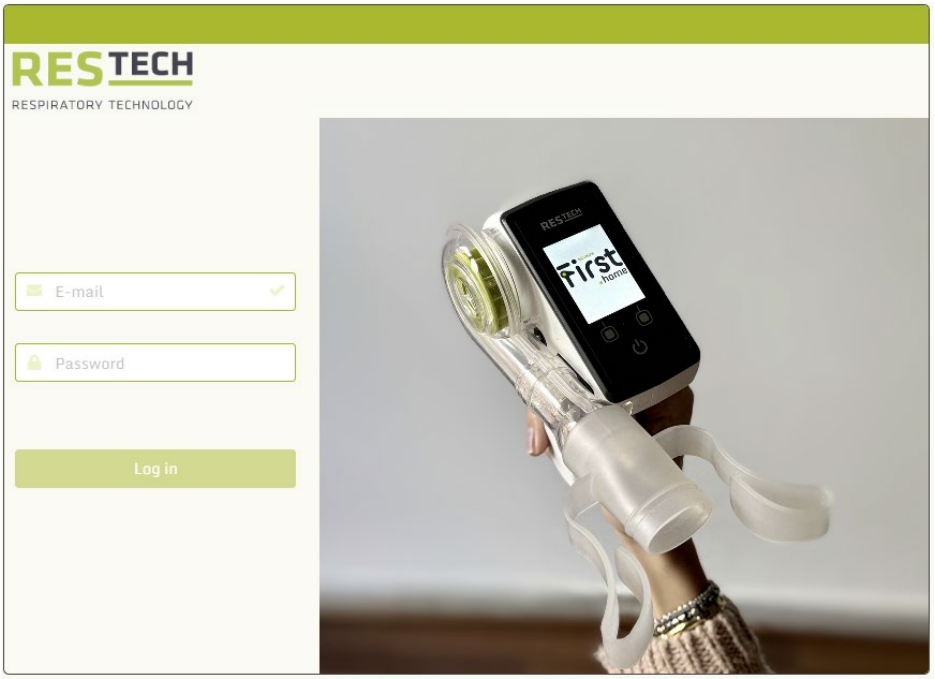


Figure 1 - RESOLVE login screen

Insert your credentials and click on the Login button to access the portal.
The first time you login, you will need to set your password. All subsequent logins will be made with your new password.

Caution! RESOLVE contains confidential data. Protect its content from unauthorized access following the security policies of your facility.

Note: your temporary password will expire after 7 days. Please activate your account before expiration time, or contact assistance (see section User Assistance Information) to require a new temporary password.

Logout

The logout can be performed from any page of RESOLVE.
Click the *Logout* icon on the top right corner of your screen.

Note: RESOLVE will automatically logout after being unused for 60 minutes.

Language

The change of language can be performed from any page of RESOLVE.
Click the flag icon next to the *Logout* icon on top right of your screen.
For the software version 1.4.0 of RESOLVE the supported language are English and Italian.

Roles

Your account is associated with a *role* that will affect your experience in RESOLVE after the login. The two roles available are *Monitor* and *Manager* and their capabilities are listed in Table 1.
You can see the role associated with your account on the top right corner of RESOLVE above your account name.

Table 1- Roles in RESOLVE

	Role	
What you can do with	Monitor	Manager
Patients	A monitor account is associated to one or more monitoring groups of patients at the time of creation. Therefore, you will be able to see patients belonging to those groups, both in the *Dashboard* and in the *Patient board*. You can create or delete patients. Created patients can be linked to one of the monitoring groups associated with your account. You can view or delete patients that you have personally created or any patient belonging to one of the monitoring groups associated with your account.	A manager account can see all patients associated to monitoring groups of the same customer, and even patients created by other managers of the same customers but not yet associated to any monitoring group. You can create new patients and delete patients as well. Created patients can be linked to one of the monitoring groups associated with your customer.
Monitoring group	When modifying the monitoring data of a patient, the patient will be assigned a monitoring group from a predefined list. Such list only includes monitoring groups that are available for your account.	When creating or modifying a patient, the list of available monitoring groups will include all monitoring groups associated with the same customer of your account.
Operators	You cannot access the page related to operators.	You can see all data of registered accounts for your customer, and download the audit trail for such accounts.

Devices	Devices listed inside the *Devices* page are limited to those assigned to patients belonging to monitoring groups associated with your account.	Devices listed inside the *Devices* page are those assigned to patients belonging to any of the monitoring groups of your customer. Moreover, the devices that are not currently assigned to any user/patients are also listed, provided they are assigned to your customer.

Dashboard

After logging into your account, your *Dashboard* will be displayed as reported in Figure 2.

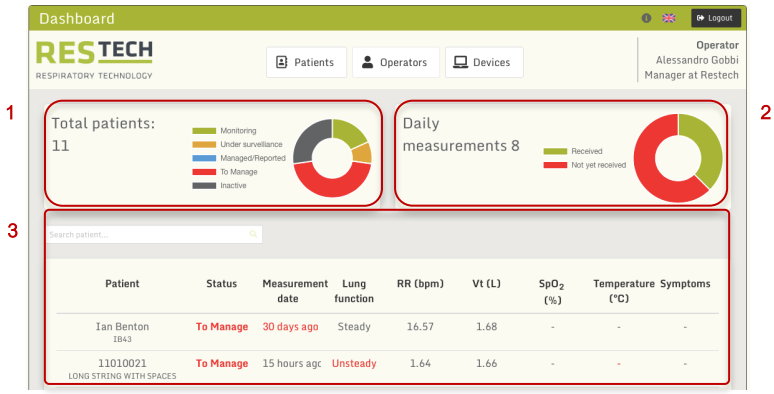


Figure 2 - Resolve Dashboard

Dashboard information is organized in three separate sections:

1. The total number of patients associated with your account, colored according to their *Status* (see below, Table 2). Inactive statuses, i.e. *Hospitalized, On Hold*, and *Deactivated* (see below) are merged into a unique gray "Inactive" status.
2. Daily measurements expected to be received by the patients associated with your account (excluded those from patients with the *Inactive Status*), divided into measurements already received and measurements that still need to be received.
3. List of patients with name, *Status*, last measurement date and main respiratory parameters, organized by patient *Status*.

Note: You can search a patient by typing his or her name or patient code in the Search Box ( ).

Note: You can click on the patient's line to open the patient history (see section *Patient history*).

Patient Status

Each patient is associated with a patient *Status* (Table 2 and Figure 2, box 3). The *Status* can be changed any time by the operator, for example using clinical patient information gathered by the healthcare professionals / operators. Some statuses are set automatically by RESOLVE depending on the monitoring protocol set for the patient, based on results of

the latest FOT measurements, symptoms (if recorded), the compliance of the patient or the presence of a scheduled call (Table 2).

Table 2 - Patient statuses

Status	Description
Statuses set automatically by Resolve	
Monitoring	The patient is active and is currently monitoring lung function and (possibly) symptoms. Patients with a *Monitoring* status are displayed in green in the middle of the dashboard. This is the default status for active patients who do not fall into *Under Surveillance* or *To Manage* statuses.
Under Surveillance	Patients with an *Under Surveillance* status are displayed in yellow in the middle of the dashboard. This is set according to the monitoring protocol in use (see below).
To Manage	Patients *To Manage* are displayed on top of the dashboard, the status is displayed in red. This is set according to the monitoring protocol in use (see below); according to the monitoring protocol in use, some other data can be marked in red in the dashboard row. An action may be required by the healthcare professional/operator.
Statuses set manually by operators	
Managed / Reported	A patient can be manually set to *Managed* or *Reported* by an operator. *Managed* shall be used when the patient has been evaluated by the operator. *Reported* shall be used in case the operator reported to a physician about the worsening indicated by RESOLVE. *Managed* and *Reported* patients appear in blue. These statuses can be modified again automatically by RESOLVE in the following days, upon the reception (or non-reception) of new data.
Hospitalized	The patient has been hospitalized; daily measurements are not being received by a hospitalized patient. Hospitalized patients are displayed in gray at the bottom of the dashboard, together with other inactive patients.
On Hold	The patient is expected to resume monitoring after a certain period of time; daily measurements are not being received by an on-hold patient. On hold patients are displayed in gray at the bottom of the dashboard, together with other inactive patients.
Deactivated	The patient in this status will not continue monitoring. Daily measurements are not being received by a deactivated patient.

	Deactivated patients are displayed in gray at the bottom of the dashboard, together with other inactive patients.

Monitoring protocols

The following monitoring protocols can be assigned to patients. They will determine the patient status for the last measurement that can be seen in the dashboard (see above).

Table 3 - Monitoring protocols

COPD	TO MANAGE: - No data has been received for 2 or more days in a row - A worsening trend of FOT parameters has been set today by the device; the worsened parameters appear in orange in case, in the last five days, the trend has been detected less than 3 times, or in red in case the trend has been detected for 3 or more days. NB: manually setting the patient status to 'Reported' resets the 5-days counter. UNDER SURVEILLANCE: - No data has been received for more than 1 day
COPD+Symptoms	TO MANAGE: - A worsening trend of FOT parameters has been set today by the device and for at least 3 days in the previous five, with or without reported symptoms - A worsening trend of FOT parameters has been set today by the device and for less than 3 days in the previous 5 and yesterday the patient reported worsening of symptoms (other than cold/sore throat) which is still waiting to be managed/reported by an operator - The patient reported a worsening of his/her symptoms (other than cold/sore throat) which is still waiting to be managed/reported by an operator - No data has been received for 2 or more days in a row - The patient has been assigned a device more than 10 days ago and still has never sent any data - A phone call has been scheduled for the patient on the current day, regardless of other parameters UNDER SURVEILLANCE: - No data has been received for more than 1 day - A worsening trend of FOT parameters has been set today by the device and for less than 3 days in the previous five

	and the patient reported no symptoms or only cold/sore throat - The patient reported a cold/sore throat today or he/she reported yesterday a worsening of symptoms (other than cold/sore throat) that has already been managed/reported by an operator
Compliance	TO MANAGE: - No data has been received for 2 or more days in a row UNDER SURVEILLANCE: - No data has been received for more than 1 day
Compliance+Symptoms	TO MANAGE: - No data has been received for 2 or more days in a row - The patient reported one or more symptoms as worsened inside the questionnaire UNDER SURVEILLANCE: - No data has been received for more than 1 day

Info

Press the *Info* icon ( ) to see the RESOLVE label, contact information, the current software version and to download this Instructions for Use (Figure 3).

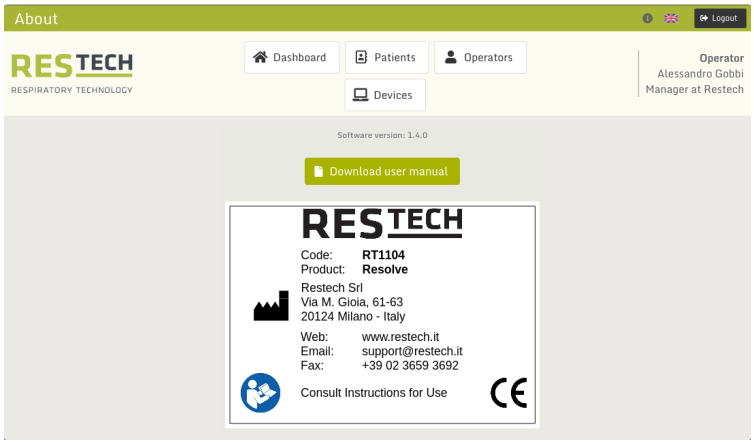


Figure 3 – Information Page

Patient history

From the *Dashboard* you can click on a patient to open his/her *Patient History*. The patient folder reports information, contacts, and all the measurements taken by the selected patient (Figure 4).

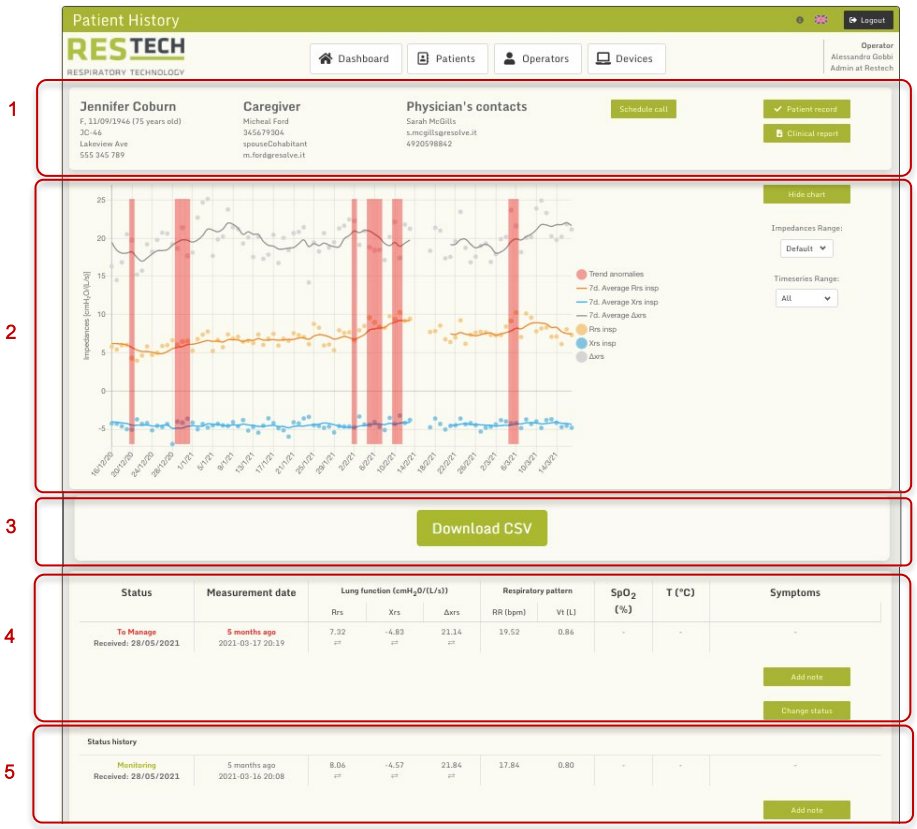


Figure 4 - Patient history

The following information is reported:

1. **Patient Information**: patient information, caregiver information (optional) and physician information (if present)

Note: You can change patient, caregiver and physician information at any time by clicking the Patients button on top of the screen (Patients) or on the *Patient Record* button in the **Patient Information**.

Note: From the **Patient Information**, you can *Schedule a Call* for this patient (see below), access the *Patient Record* or create a *Clinical Report*.

2. **Chart**: Trend plots, showing the values of inspiratory resistance (*Rrs insp*), inspiratory reactance (*Xrs insp*) and difference between mean inspiratory and mean expiratory reactance at 5 Hz (ΔXrs), unsteady days and days with increased symptoms (available symptoms depend on the questionnaire in use on the device).

3. **Download CSV**: from the *Download CSV* button you can download the patient history data in CSV format.

4. **Current Status**: current patient status, date and time of the last received measurement and main respiratory results (lung function, respiratory pattern, oxygen saturation, body temperature and other respiratory symptoms)

Note: From **Current Status**, you can change the *Patient Status* or add *Notes*.

5. **Status History**: status history, with the results of the patient measurements received along the whole monitoring period.

Note: From **Patient Status History**, you can add *Notes* at any time.

Patient History can be opened also by clicking on button  from the *Patient board*.

Patient Information

Scheduling a call

It is possible to select a date to contact the patient and set a reminder by clicking on the *Schedule a call* button in *Patient History* (Figure 4). Insert the desired date and time for the call and press the *Save* button. You can cancel the scheduling operation at any time by pressing the button *Cancel*.

Note: According to the monitoring protocol in use, patients with **Scheduled calls** may appear with a status **To Manage** in your *Dashboard*.

Note: You can only schedule calls on patients who are not anonymous, i.e. you need to provide First and Last name (phone number is not mandatory).

Once a call has been scheduled, you can cancel it by pressing the *Delete* button (), or edit date and time of the scheduled call by pressing the *Edit* button ( ) ().

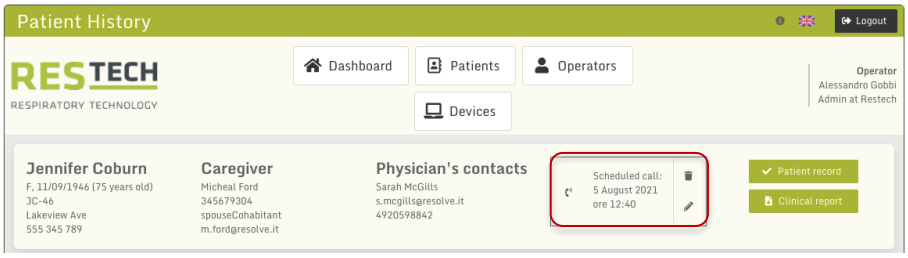


Figure 5 - Date and time of the scheduled call

Patient Record

You can access the summary of the data inserted for the selected patient by clicking on *Patient Record* button (Figure 4).

Note: You can access the same summary data by clicking on *Patients* button on top of the screen (Patients) and then on the patient row.

The following summary screen will be displayed (Figure 6).

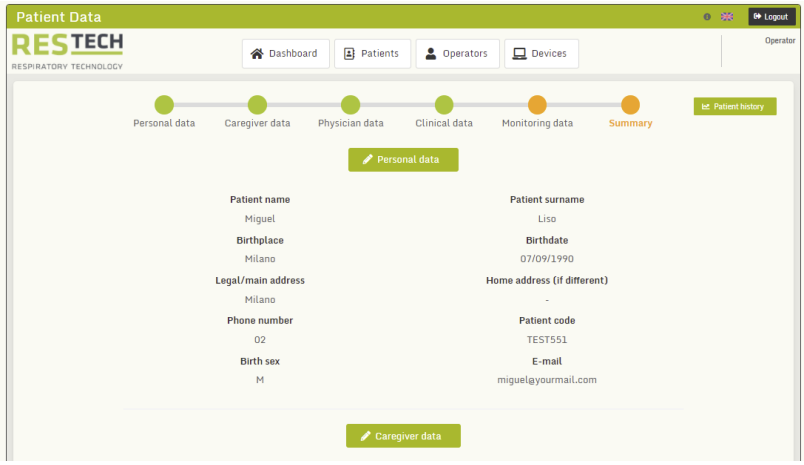


Figure 6 - Patient data summary screen

You can edit the sections of the patient *Personal Data* or *Caregiver Data* by clicking on the button with the edit symbol ( ) next to each section title.
When done editing the patient information, click on *Save* to confirm the changes.
For more information regarding the personal data, see also section *Patient board.*

Clinical report

A clinical report of the last measurements taken can be downloaded by pressing the *Clinical Report* button (Figure 4).
A clinical report contains all the information reported in the *Patient History*.
Press the *Print* button to open print options and to print the clinical report. Select *Save as PDF* in the printer's box to save the clinical report as a file instead of sending the PDF directly to print.

Chart

Trend plots can be adjusted with different time scales to visualize the variation of respiratory parameters throughout different periods of time.
By default, the whole history is visualized.
If you click on the *Timeseries Range* drop-down menu, you will be able to choose between the following options: 1 month, 3 months, 6 months, 12 months, *All* or *Custom* interval.
If you click on *Custom*, two boxes will pop up indicating *Start date* and *End date*. If you click on the boxes, a popup will appear displaying a calendar to choose the Start / End date. You must choose both *Start date* and *End date* and click *Apply* to change values (Figure 7).

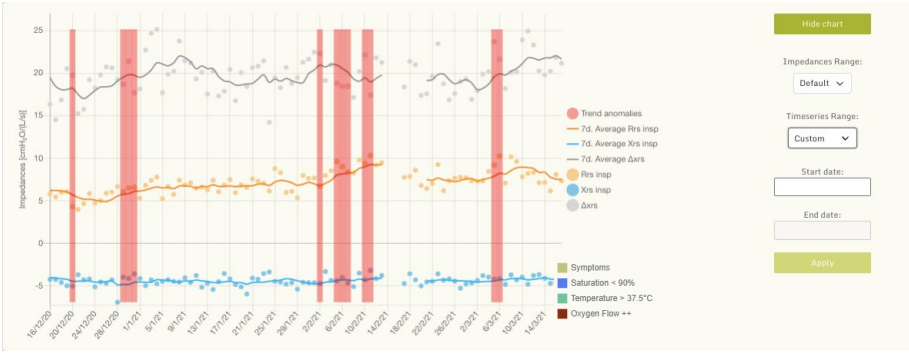


Figure 7 – Custom selection of start and end date for the trend plots

Note: You can hide the trend plots by clicking on the *Hide chart* button. You can display the trend plots by clicking on the *Show chart* button.

i	**Note:** Once you change the time interval, you will see only the measurements taken in the specified interval, both on the graph and inside the table. If you click on *Clinical Report* in the **Patient Information**, the report will contain the same interval you see in here.

The plots can also be customized by selecting a different range on the y axis. By default, maximum and minimum values of Rrs insp, Xrs insp and ΔXrs are computed and used to display the whole data; by changing from *Default* to *Custom* you can enter a different value for both *Max* and *Min* values of the y-axis. Click *Apply* to reload the graph accordingly.

The information displayed in the **Chart** is the following (Figure 7):

- **Inspiratory resistance** (Rrs insp): data is displayed as mean daily values measured by the connected device (orange circles) and as a 7-day moving average trend (orange line). Hovering the mouse over each daily Rrs insp point provides you the value in $cmH_2O/L/s$.
- **Inspiratory reactance** (Xrs insp): data is displayed as mean daily values measured by the connected device (blue circles) and as a 7-day moving average trend (blue line). Hovering the mouse over each daily Xrs insp point provides you the value in $cmH_2O/L/s$.
- **Difference between inspiratory and expiratory reactance** (ΔXrs): data is displayed as mean daily values measured by the connected device (grey circles) and as a 7-day moving average trend (grey line). Hovering the mouse over each daily ΔXrs point provides you the value in $cmH_2O/L/s$.
- **Trend anomalies:** days where a worsening trend for the Rrs insp, Xrs insp or ΔXrs has been detected, based on RESTECH proprietary algorithm validated in a multi-center EU trial (Walker P et al., *Am J Respir Crit Care Med*, 2018); these days are colored in red when using the COPD+Symptoms monitoring protocol. When using the COPD monitoring protocol, they are colored in orange if the worsening trend was set for less than 3 days in a window of 5 days since the next reporting, in red if it was set for 3 or more days in the same time interval. For further information, see also section *Guide to the interpretation of measurements displayed on Patient History*.
- **Symptoms**:
    - **Questionnaire symptoms**: if a *symptoms questionnaire* has been enabled on the device of the patient, the answers to such questionnaire are included in this section. Symptoms are categorized as *body temperature, saturation, increased oxygen flow* or *other reported symptoms*. For each symptom category, lines represent periods with no worsening in the previous 24 hours, squares represent days with worsening in the previous 24 hours, while the absence of any line indicates the absence of data. If, on a given day, the patient indicated that he/she felt a worsening of respiratory symptoms, this

event is marked with a kaki square; conversely, if the patient indicated that he/she did not feel a worsening of respiratory symptoms, this event is marked with a kaki line. If the *symptoms questionnaire* has not been enabled on the device of the patient, no information is displayed.

- **Saturation**: This information is included whenever a *saturation questionnaire* has been enabled on the device of the patient (RESMON PRO DIARY), or a pulse oximeter is enabled on the device (FIRST.HOME). In case the saturation value is below 90%, this event is marked with a blue square.
- **Body Temperature**: This information is included whenever a question about the body temperature is included in the questionnaire enabled on the device. In case the body temperature value is above 37.5°C, this event is marked with an aqua (light green/blue) square.
- **Oxygen Flow**: This information is included whenever a question about oxygen therapy is included in the questionnaire enabled on the device. In case the amount of oxygen had to be increased, this event is marked with a dark red square.

Note: You can hide information shown in the **Chart** by clicking on its icon or name. To display the default information again, simply click on them once more.

Current Status

After the **Chart**, the *Current patient Status* is reported.
The date and time of the last measurement and the main respiratory parameters from the last measurement (lung function, respiratory pattern, oxygen saturation temperature and other respiratory symptoms) are reported (Figure 4).

Change status

The current patient status can be changed by clicking on the *Change status* button.
From the popup, select the new status for the patient. The change is applied immediately.
For a list and description of possible statuses, see section *Patient* .
You can exit the popup screen by clicking on the *X* on the top right corner or anywhere outside the popup.

Note: If you change the status in *Managed or Reported* the patient will be categorized as such in the *Dashboard* until a new event happens.



Note: If you set the patient as *Hospitalized / On hold* he/she will be considered an inactive patient, colored in grey in the dashboard and not counted among patients from whom you are expecting to receive daily measurements.



Note: When a patient is set in the *Deactivated* status, the device is also automatically disassociated, and becomes available for other patients. Please notice that the device will NOT be automatically re-associated to the same patient in case the status is changed back to something other than *Deactivated*.
It will no longer be possible to receive measurements from this patient unless a new association with a device is made from the *Patient board*.
If the device is not explicitly associated to another patient, any new measurements will be displayed as coming from anonymous patients and may not be available to all operators.

Add notes

Besides changing the patient status, you can add a note by clicking on the corresponding button *Add note*. Press *Save* to confirm the note, *Cancel* to abort the operation. Each note, once saved, will be displayed next to the corresponding measurement, together with the ID of the user and a timestamp.



Note: You cannot delete notes after saving them. You can always add new notes related to any measurement, even past measurements.

Status History

The patient Status History reports all measurements received by the patient and the status of the patient related to the measurement itself (Figure 4).

Guide to the interpretation of measurements displayed on Patient History

Measurements reported in the patient *Current Status* and in the *Status History* contain the following information (Figure 4):

- **Patient Status**. For a list and description of available statuses, see section *Patient* . An information about when the measurement was received on RESOLVE is displayed below the Patient Status, in case data has been received on a different date with respect to the day of the measurement.
- **Measurement Date**. It is displayed both as relative time (i.e., one day ago, one month ago, etc.) and as absolute date and time (i.e., 2021-03-26 11:20). Time zone information is included, i.e. the time displayed is always the local time at the patient's place.
- **Lung Function Data**. The following daily mean values are reported: inspiratory resistance (Rrs insp), inspiratory reactance (Xrs insp) and difference between inspiratory and expiratory reactance, which is an index of tidal expiratory flow limitation when > 2.8 $cmH_2O/L/s$ (ΔXrs). Beneath each parameter you will find the icons reported in Table 4, which summarize the worsening trend results calculated by the algorithm described in Walker P et al., *Am J Respir Crit Care Med*, 2018.
- **Respiratory Pattern Data**. The following daily mean values are reported: respiratory rate (RR, in breaths per minute) and tidal volume (Vt, in liters).
- **Oxygen Saturation (SpO_2)**. If available, the O_2 saturation (%) is reported here as whether or not its value is above the 90% threshold. The color of this parameter is set as reported in Table 4.
- **Temperature (T)**. If available, the body temperature (degrees Celsius) is reported here as whether or not its value is above the 37.5°C threshold. The color of this parameter is set as reported in Table 4.
- **Other symptoms**. If available from the daily *symptoms questionnaires* displayed to the patient on the screen of the device, each exact symptom marked by the patient as worsened is reported in here. If no symptoms have been reported, *None* is displayed, while if the patient has no questionnaires installed, a "–" symbol represents the unavailability of the information. The color of each symptom is set as reported in Table 4.

Table 4 - Icons displayed beneath Lung Function parameters and formatting colors for SpO_2, Body Temperature and Symptoms parameters in the Patient History screen

	Parameter			
Parameter Value	*Lung function*	*SpO_2*	*Body Temperature*	*Symptoms*
No data	-	-	-	-
Stable	The arrows are displayed in grey color: ⇄ indicates stability	≥90% displayed in grey	<37.5 °C displayed in grey	If there are no symptoms marked by the patient, *None* is shown
Worsening	↘ or ↗ according to the parameter displayed in red • ↗ is used for Rrs insp and ΔXrs • ↘ is used for Xrs insp	<90% displayed in red	≥37.5 °C displayed in orange	Symptoms, when reported, are shown with different colors according to the questionnaire and monitoring protocol in use: e.g. a worsening cold or sore throat might be displayed in grey, mental confusion and increased inability to complete daily tasks might be displayed in red, the other worsened symptoms might be displayed in orange

Note: A trend for FOT parameters (↘ or ↗) can only be calculated if at least 5 valid measurements have been made by the patient in the last 10 days.

Note: The first 10 days of measurement are used by the algorithm of the device as a *training window*, therefore no trend icons (⇄, ↘ or ↗) will be displayed.

Patient board

Note: From the *Patient board* you can add or delete new patients to your monitoring program or edit existing patients.

You can access the *Patient board* clicking on the *Patient* button on the top of the screen (Figure 8)

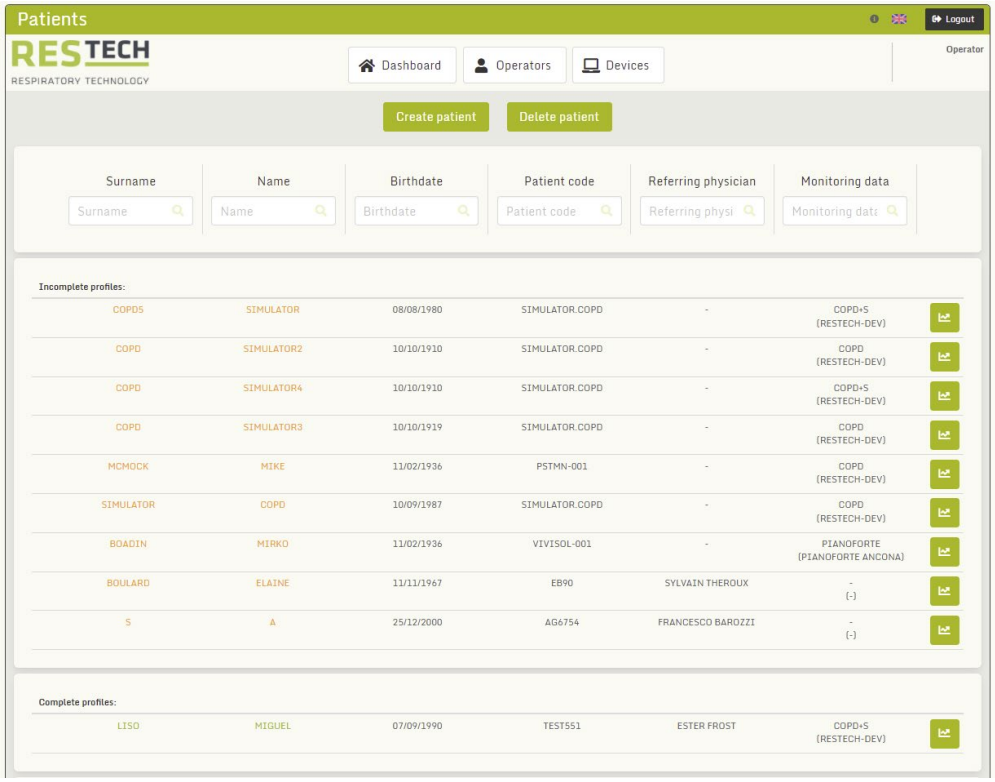


Figure 8 – Patient board

From the *Patient board* you can search patients by Surname, Name, Birth date, Patient code, Referring physician, Monitoring Centre or Group. You can search patients simply typing in the appropriate boxes the field or part of the field.
If a patient profile is incomplete, it will appear in orange on the upper box. Complete patient profiles appear in green on the lower box. You can access the patient profile by clicking on a patient line from the *Patient board*.

Add or delete patients

From the *Patient board*, you can add or delete a patient by clicking on the *Create Patient* or *Delete Patient* buttons (Figure 8). You can now edit the patient record.

Note: Both *Manager* and *Monitoring* accounts can add or delete new patients. See also section *Roles*.

Edit a Patient Record

Patient records are organized in **five sections** and a **final summary**:

- **Personal data** (name, surname, birth date, birth place, sex, address, patient code, email address). It is not necessary to enter all the information in order to save a patient; only the patient code is mandatory. This enables the creation of anonymous patients when required.
- **Caregiver data** (name, surname, phone number, relation with the patient, email address and relationship with the patient). Caregiver data can be left blank by checking the *No caregiver* box.
- **Physician data** (name, surname, phone number, email address).
- **Clinical data** (height, weight, BMI, spirometric data, smoking history, last available spirometry data, number of hospitalizations due to respiratory disease in the last year, list of diagnosed pathologies). BMI is automatically calculated from height and weight
- **Monitoring data** (assigned device serial number, monitoring group, monitoring protocol)

Note: In the **Clinical Data section**, FEV_1 and FVC values can be reported in liters (L), percent of predicted (% pred) or both, in the appropriate boxes.
The FEV1/FVC ratio is automatically calculated.

Note: In the **Clinical Data section**, you can add new diagnosed pathologies by clicking on the "+ *Add pathology*" button at the bottom of the page. You can also delete them by clicking on the "- *Delete pathology*" button. Once confirmed, pathologies cannot be deleted.

Note: In the **Monitoring Data section**, valid device serial numbers (i.e. already registered on RESOLVE) will be marked with a green tick. If you provide a serial number that is already assigned to a patient, or that does not exist, an error message will be displayed and you won't be able to proceed.

Note: In the **Monitoring Data section**, the monitoring group can only be selected from a predefined list. The available groups depend on the role of the user, see also section *Roles*

Note: In the **Monitoring Data section**, the monitoring protocol is selected from a predefined list. A description is available for each option. Currently supported protocols are the following:

- *COPD: Lung function and compliance*
- *COPD+S: Pulmonary function trends, symptoms and compliance*
- *COMPLIANCE: Monitoring of patient compliance*
- *COMPIANCE+S: Monitoring of symptoms and patient compliance*

Incomplete sections of a patient record will be displayed in orange (Figure 9).

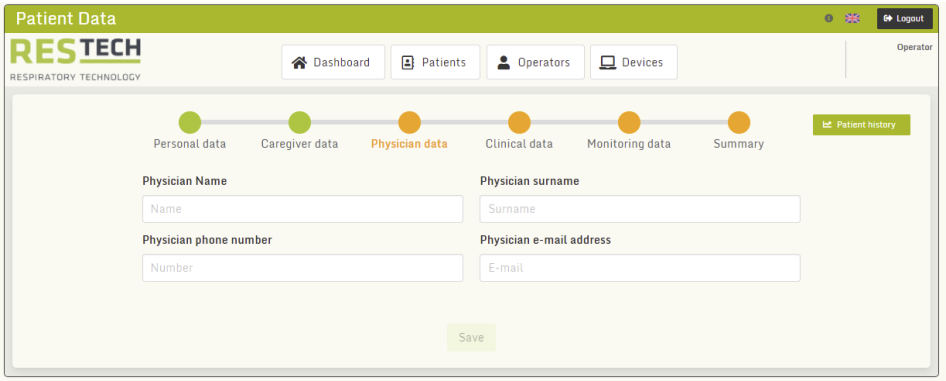


Figure 9 - Incomplete patient record. Incomplete sections are highlighted in orange.

- **Summary**. It is displayed in green if all previous sections have been completed, otherwise it will be displayed in orange. All sections can be edited from the summary screen by clicking the button with the *Edit* icon ( ).

Operators board

Click on the *Operators* button on top of the screen to access the *Operators board* (Figure 10).

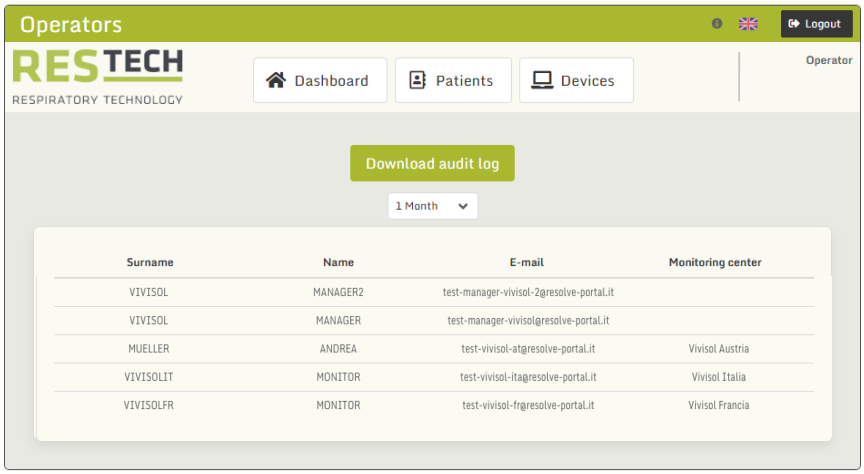


Figure 10 – Operator board

An audit log can be downloaded by clicking on the *Download audit log* button.
This file contains a list of all the operations performed by all the accessible accounts: the log contains a timestamp and an operation including the ID of the account. Operations logged are:

- Login
- Status change, including patient identification data and old and new statuses

Note: By default, only data related to the last month is included in the audit log. It is possible to select a longer timeframe clicking on the timeframe button and opening the drop-down menu, you will be able to choose between 1 month, 3 months or 12 months.

Note: Only accounts with a role of *Manager* (see section *Roles)* can access the *Operators board* and the audit log; all accounts belonging to the same customer will be displayed, regardless of their role, both inside the table displayed on screen and the audit log.

Devices board

Click on the *Devices* button on the top of the screen to access the *Devices board*.
This section lists all the devices that the operator is allowed to access.
Devices associated to patients that are actively transferring data are displayed on top; devices not associated to patients, but with some contact, are displayed immediately after, followed by devices associated with a patient but with no transmission. Other available devices are listed last (Figure 11).

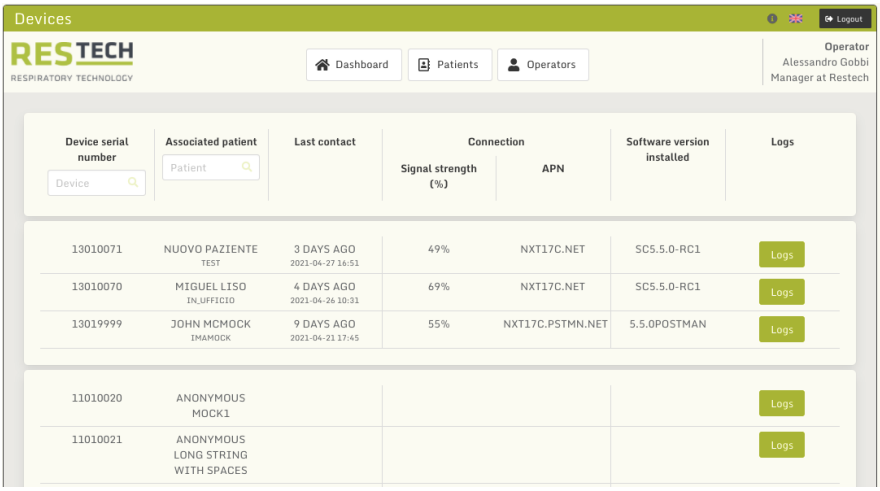


Figure 11 - Device board

It is possible to search for a specific device by serial number, or search for a patient associated to a device.
The following information is reported, when available:

- Last contact between the device and RESOLVE
- Signal strength (%), Access Point Network (APN) and software version used at the time of the last contact between the device and RESOLVE

By clicking the *Logs* button, a series of technical data sent by the device is reported and a button to download log files is also made available. This information can be required by technical assistance in case of troubleshooting.

Note: If the device never contacted RESOLVE, there will be no logs available

User Assistance Information

Model: Resolve (ref. RT1104)

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