



US English

EasyCare Tx 2

Online Clinical Guide

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Legal and regulatory notices

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Manufacturer: ResMed Corp 9001 Spectrum Center Boulevard San Diego CA 92123 USA

Important notice

This manual, as well as the computer programs described herein, are supplied on the condition that they may only be used in accordance with their stated purpose. The information in this manual is furnished for the purpose of instruction and guidance only, is subject to change without notice, and should not be construed as an alternative to qualified medical advice. ResMed assumes no responsibility or liability for any errors or inaccuracies that may appear in this manual. Other than with the written permission of ResMed, no part of this manual or the computer programs described herein may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, recording, or otherwise. All patient identities and data in this manual are fictional.

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About EasyCare Tx 2

The EasyCare Tx 2 titration software allows users to control positive airway pressure (PAP) therapy devices remotely from a computer. This titration solution is comprised of three parts:

1. EasyCare Tx 2 titration software
2. TxLink™ 2 connection module
3. AirSense™ 11, AirCurve™ 11, AirCurve 11 VPAP™ Tx, or other compatible ResMed therapy device*



Note

*AirCurve 11 VPAP Tx may not be available in every country.



EasyCare Tx 2 also:

- controls and displays data coming from the connected therapy device
- configures signals output by the TxLink 2 to polysomnography (PSG) systems
- displays alerts generated by the therapy device (where supported)

This help provides instructions on using EasyCare Tx 2 software with a TxLink 2 device. Refer to the TxLink 2 device guide, AirSense 11 AutoSet™, AirCurve 11 and AirCurve 11 VPAP Tx device guides, Titration Equipment Installation Guide, and other ResMed therapy device guides for instructions on their use.



Caution

- Read the entire help guide before using this software.
- In the US, federal law restricts this device to sale by or on the order of a physician.
- To protect system components and patient information, your facility should implement appropriate cybersecurity policies, such as encrypting the file system where protected health information (PHI) is stored and enforcing unique usernames and passwords for all staff that have access to the computer as a minimum.

Intended use

The EasyCare Tx 2 software is intended to be used with ResMed compatible therapy devices in a clinical environment. EasyCare Tx 2 provides therapy device setting changes and displays real-time data and treatment settings from compatible ResMed therapy devices when used together with the TxLink 2 module.

Clinical benefits

Refer to the user or clinical guide of the attached ResMed therapy device for clinical benefits relevant to the attached therapy device.

Intended patient population/medical conditions

EasyCare Tx 2 is intended to be used with ResMed's compatible therapy devices via TxLink 2. Refer to the user or clinical guide of the attached ResMed therapy device for information on the intended patient population, as this may vary between devices.

Compatible devices

For a full list of compatible therapy devices, see the Data Management/Device Compatibility List on www.resmed.com. If you do not have internet access, contact your ResMed representative.

Contraindications

Refer to the user or clinical guide of the attached ResMed therapy device for contraindications or adverse effects.

Recommended system requirements

The minimum hardware requirements for installing EasyCare Tx 2 software are outlined in the following table:

Hardware requirements	
Computer	1 GHz processor or greater
Memory	4 GB RAM or greater
	8 GB RAM or greater for 64-bit Windows® operating system (OS).
Screen resolution	1680 x 1050 (or higher)
Operating systems	Microsoft® Windows 10 OS, Windows 11 OS
Network speed	10/100/1000 Mbps
Free space on hard drives	400 MB
USB port	Type A (or USB C with an adapter)

The minimum software requirements for installing EasyCare Tx 2 software are outlined in the following table:

Software requirements
Microsoft .NET 5.0
Microsoft Edge™ browser, Google Chrome™ browser
A portable document reader, such as Adobe® Reader® software

Install EasyCare Tx 2 software

You can download EasyCare Tx 2 software from the ResMed Healthcare Professional website if you have an account.



Important

You must have Windows administrator privileges on the computer to install the software.

To install EasyCare Tx 2 software:

1. Download the EasyCare Tx 2 software to a convenient location, such as your **Downloads** folder.
2. Close all open applications on your computer.
3. Double-click the **EasyCare Tx 2 setup** file.
4. Enter your Windows administrator username and password.
5. Review and accept the **License Agreement**.
6. Choose a folder where you want to install the EasyCare Tx 2 software, and click **Install**.
7. When the software install is complete, click **Finish**.

After a successful install, the EasyCare Tx 2 icon appears on the computer desktop.

Uninstall EasyCare Tx 2

You must uninstall EasyCare Tx 2 to remove it from your computer.

To uninstall EasyCare Tx 2 software:

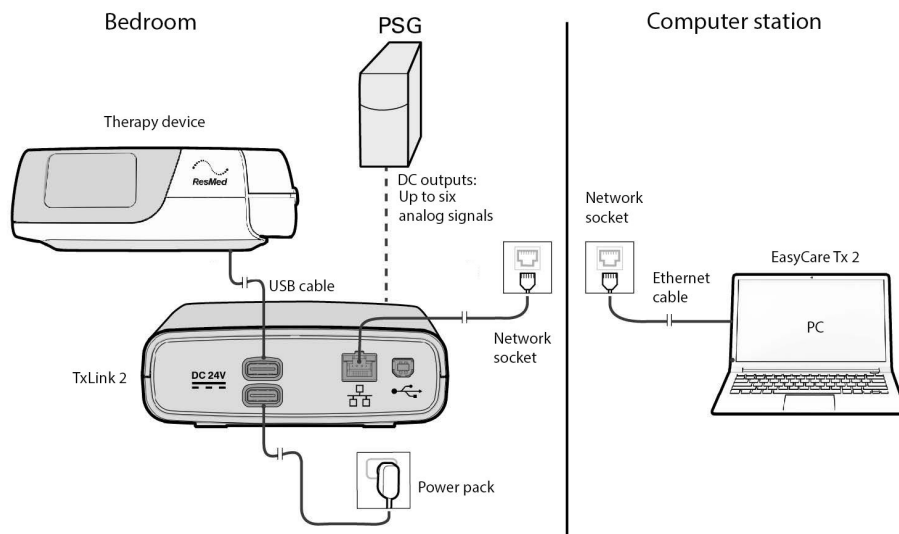
1. Open the **Control Panel**.
2. Select **Programs and Features**.
3. Locate EasyCare Tx 2.
4. Right-click and select **Uninstall**.



Important

If you uninstall EasyCare Tx 2, you will also uninstall all associated security certificates from your computer. You must reconnect the TxLink 2 devices after you reinstall EasyCare Tx 2.

Set up EasyCare Tx 2



After you install the EasyCare Tx 2 software, you can connect the TxLink 2, AirSense 11, AirCurve 11, or AirCurve 11 VPAP Tx, and PSG as shown in the diagram. Please refer to the EasyCare Tx 2 Titration Equipment Installation Guide for more information.

EasyCare Tx 2 relies on standard network protocols to communicate with the TxLink 2 device. Devices are discovered on the local network via Universal Plug and Play (UPnP) and HTTP protocols using ports 1900 and 8080. You create trusted connections to a discovered device from the **Add** tab in the **Administrator** window which uses secured web services via port 8443.

Follow these links for more information on [configuring a new TxLink 2 device](#) or [upgrading the firmware on an existing TxLink 2 device](#).



Important

Digital integrations with PSGs may be available. Speak with your ResMed representative for details.

Log in to EasyCare Tx 2

After you make the physical connections between the Tx Link 2, the PSG and the ResMed therapy device, you can open EasyCare Tx 2 and log in.

EasyCare Tx 2 relies on your organization's Windows login policies to gain access to the program's features. You can log in using your Windows username and password. If you are currently using EasyCare Tx 2 on a computer that is part of a domain, you can log in to EasyCare Tx 2 with the same credentials you use to log in to Windows. Alternatively, you can log in to EasyCare Tx 2 using your local account credentials, if you have a local account.

Windows enforces all group policies associated with your account when you log in to EasyCare Tx 2. For domain-based accounts, you can log in to EasyCare Tx 2 from any computer that is part of the same domain and has EasyCare Tx 2 installed.



Important

The credentials you enter are for validation purposes only and are not stored anywhere in EasyCare Tx 2.

Connection Manager

If you have more than one trusted TxLink 2 device connected to EasyCare Tx 2 on your computer, you will see the **Connection Manager** window when you log in. The **Connection Manager** window lists all

secure connections of TxLink 2 devices on this computer. It also displays the status of each TxLink 2 and its attached therapy device.



Important

If EasyCare Tx 2 fails to discover any TxLink 2 devices on the network, it displays a device discovery window. On this window, you can try to discover devices again, or you can click **Continue** to advance to the **Connection Manager**.

You must have Windows administrator access to securely connect EasyCare Tx 2 to a TxLink 2 device. Once you make a secure connection, the **Connection Manager** displays the trusted TxLink 2 device and its associated PAP machine. After an administrator securely connects the TxLink 2 device, any user can open a titration window on the TxLink 2 by clicking **Connect**. If you have saved any **User therapy settings**, you can load them in the **Connection Manager** window.



Important

Only Windows administrators can configure and add new TxLink 2 devices to the network. Clinical users can access and use all other administrative functions.

To make secure connections to TxLink 2 devices:

1. Right-click the EasyCare Tx 2 icon on the desktop and select **Run as Administrator**.
2. Enter your Windows administrator username and password.
3. Log in to EasyCare Tx 2 using your Windows username and password. The administrator **Dashboard** loads.
4. Click **Add**.
5. Use the device name or serial number to identify the TxLink 2 you want to control, and then click the expansion arrow on the right side of the row.
6. Select **Show in Connection Manager** to securely connect to this TxLink 2.
7. Click the **Dashboard** tab. The TxLink 2 now appears in the trusted devices list for this computer.
8. Any user (including clinical users) can switch to the **Connection Manager** tab and click **Connect** to open a titration window for the added TxLink 2 and its attached therapy device.



Important

If no **TxLink 2** device is discovered, you won't see any any device details on this screen. You can search for a **TxLink 2** device with a known IP address by entering it in the **Manually add a device with IP address** field.

Note: A Titration Equipment Installation Guide is available on the ResMed website for administrators.

Configure and calibrate

To use a TxLink 2 with a PSG system, you must complete the following three steps to configure and calibrate the DC output signals.

1. [Configure DC output signals](#)
2. [Calibrate DC output signals](#)
3. [Test DC output connectivity](#)

DC output settings are stored for each TxLink 2, so you must repeat the steps described here for every TxLink 2 device. (Learn how to [save](#) and [load](#) DC output signal configurations.)

For help configuring and calibrating the TxLink 2, contact a ResMed representative or ResMed Technical Care. For help with PSG-related questions, see the PSG manufacturer's documentation.

Configure DC output signals

You must configure and calibrate each TxLink 2 DC output signal connected to the PSG. Each TxLink 2 device supports up to six **DC Outputs** (labeled **A** to **F**). The following table lists the DC output signals you can configure according to your clinical requirements.

Display	Options screen, Real-time data	DC outputs
Mask Pressure	Yes	Yes
Patient Flow	Yes	Yes
Leak	Yes	Yes
Respiratory Rate	Yes	Yes
Tidal Volume	Yes	Yes
Minute Ventilation	Yes	Yes
Oxygen Saturation	Yes	Yes
Pulse Rate	Yes	Yes
Inspiration Set Pressure	No	Yes
Expiration Set Pressure	No	Yes
CPAP Set Pressure	No	Yes

You can configure up to six TxLink 2 signals according to your therapeutic requirements (which may vary from patient to patient). You should manually configure the DC outputs for each signal, one at a time, to the output of your choice. Once you configure the DC output signals for a particular bed, you can save this configuration to use on other TxLink 2 devices.

ResMed EasyCare Tx 2 - Tx Room 101

[Connection Manager](#)
[Help](#)
[About](#)

Output	Signal	Low value	High value	Range
A	Mask Pressure	0 hPa	22 hPa	0 to 1 V
B	Patient Flow	-120 L/min	180 L/min	-1 to 1 V
C	Leak	0 L/min	102 L/min	0 to 1 V
D	Inspiration Set Pressure	0 hPa	40 hPa	0 to 1 V
E	Tidal Volume	0 mL	4,000 mL	0 to 1 V
F	Minute Ventilation	0 L/min	30 L/min	0 to 1 V

Test all

Save as...

Load...

Apply

Cancel

To configure DC output signals:

1. In the **Connection Manager** window, locate the TxLink 2 that you want to configure and then click **Connect** to open the titration window.
2. In the titration window, click **DC Outputs**.



Note

If the **DC Outputs** tab is not visible, you can change the **System setup** options to add it to the titration window.

3. Adjust the following DC output settings as required:

Field	Description
Signal	Select the appropriate signal from the Signal lists. The Low value , High value and Range data changes to match the signal selected.
Low value	Enter the low value expected from the therapy device.
High value	Enter the high value expected from the therapy device.
Range	Select the range required on the DC outputs.

The screenshot shows the 'ResMed EasyCare Tx 2 - Tx Room 101' window. At the top, there are tabs for 'Connection Manager', 'Help', and 'About'. Below the tabs is a table with columns: 'Output', 'Signal', 'Low value', 'High value', and 'Range'. The table contains six rows of configuration data:

Output	Signal	Low value	High value	Range
A	Mask Pressure	0 hPa	22 hPa	0 to 1 V
B	Patient Flow	-120 L/min	180 L/min	-1 to 1 V
C	Leak	0 L/min	104 L/min	0 to 1 V
D	Inspiration Set Pressure	0 hPa	40 hPa	0 to 1 V
E	Tidal Volume	0 mL	4,000 mL	0 to 1 V
F	Minute Ventilation	0 L/min	30 L/min	0 to 1 V

At the bottom of the window, there are three buttons: 'Test all', 'Apply', and 'Cancel'. The 'Apply' button has a small downward arrow next to it.

4. Click **Apply**.



Important

To save or load a DC output signal configuration, click the arrow beside **Apply** and click **Save as** to save the file. Save the file with a memorable name in a convenient location and load individual files as clinical requirements change.

After you configure the DC output signals, you must [calibrate the DC outputs](#) and [test the DC output connectivity](#).

Calibrate DC output signals

After you configure the DC outputs, you must calibrate the corresponding PSG inputs. You can use EasyCare Tx 2 to send known high and low signal levels for this task. If you have not configured the DC outputs, see [Configure DC output signals](#) before you proceed.

1. In the titration window, click **DC Outputs**.
2. Select the signal (for example, **Mask Pressure** or **Patient Flow**) that you want to calibrate and click the arrow on the right side of the screen to expand that section.

Output	Signal	Low value	High value	Range
A	Mask Pressure	0 hPa	22 hPa	0 to 1 V
B	Patient Flow	-120 L/min	180 L/min	-1 to 1 V
C	Leak	0 L/min	104 L/min	0 to 1 V
D	Inspiration Set Pressure	0 hPa	40 hPa	0 to 1 V
E	Tidal Volume	0 mL	4,000 mL	0 to 1 V
F	Minute Ventilation	0 L/min	30 L/min	0 to 1 V

Calibrate

3. Click either **Send high** or **Send low** to send the signal to the PSG via the selected DC output.
4. Confirm that the **PSG software receives and correctly displays the high or low signal**.
5. Click **Stop**.
6. Repeat steps 3, 4 and 5 for all DC output channels that require calibration.

After you calibrate the DC output signals, you can test the DC output connectivity for each channel (see [Test DC output connectivity](#)).

Test DC output connectivity

It is a good practice to test DC output channels prior to starting each titration. You can confirm the proper operation of the DC output channels visually through the test signal, which appears sequentially across all outputs. Before you test the connectivity, make sure that you have configured DC outputs (see [Configure DC output signals](#)) and calibrated DC outputs (see [Calibrate DC output signals](#)).

To test DC output signals:

1. In the titration window, click **DC Outputs**.

Install EasyCare Tx 2 software

2. In the DC outputs window, click **Test all**. EasyCare Tx 2 applies a sequential square wave to each output.

Output	Signal	Low value	High value	Range
A	Mask Pressure	0 hPa	22 hPa	0 to 1 V
B	Patient Flow	-120 L/min	180 L/min	-1 to 1 V
C	Leak	0 L/min	104 L/min	0 to 1 V
D	Inspiration Set Pressure	0 hPa	40 hPa	0 to 1 V
E	Tidal Volume	0 mL	4,000 mL	0 to 1 V
F	Minute Ventilation	0 L/min	30 L/min	0 to 1 V

Calibrate buttons: Send low, Send high. Square wave icon.

Bottom buttons: Stop, Apply, Cancel.

3. Confirm that the PSG software displays a square wave. If you see a different signal, check the connectivity.
4. After you finish testing the signals, click **Stop**.

Export DC outputs

If you want to set up consistent DC output settings between TxLink 2 devices, you can save the settings for one TxLink 2 device to a configuration file. You can then apply this configuration file to other TxLink 2 devices on this computer or other computers.

To export DC output settings:

1. [Configure DC output signals](#).
2. Click the arrow next to **Save**.
3. Click **Save as**.
4. Choose a convenient location and a memorable file name for easy retrieval.

Import DC output settings

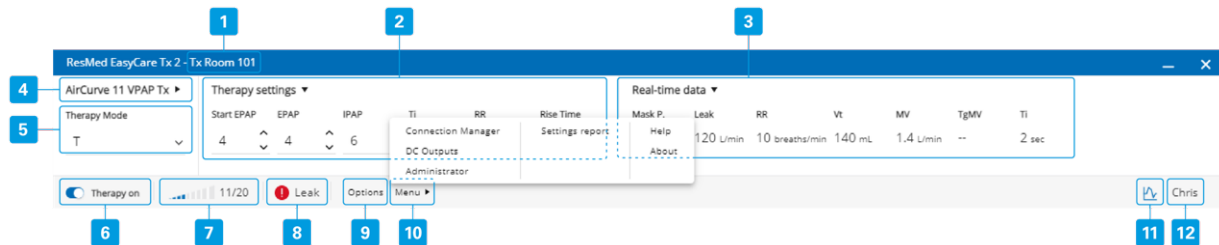
You can save the DC output signal configuration to a file on your computer, and then import the file and apply it to a TxLink 2 device.

To import DC output settings:

1. In the titration window, click **DC Outputs**.
2. Next to the **Save** button, click the arrow and select **Load**.
3. Select the configuration file to import. The DC output data is loaded.
4. Click **Save**.

EasyCare Tx 2 titration window

The EasyCare Tx 2 titration window allows you to remotely control a therapy device while viewing current therapy settings and real-time data.



Number	Description
1	Name of the connected TxLink 2.
2	Therapy settings.
3	Real-time data.
4	Connected PAP machine.
5	Therapy Mode (see Therapy modes).
6	Toggle Therapy off and on
7	Ramp progress. If the Ramp setting is set to Auto , the progress bar cycles.
8	Leak alert
9	Options for your System setup , Therapy settings and Device settings .
10	Menu (settings) for Connection Manager , DC Outputs , Administrator , Settings report , Load , Help , and About .
11	Show Live graphs icon
12	Username

Prepare the PAP therapy device

EasyCare Tx 2 can control therapy device settings, such as **Ramp**, EPR™ (Expiratory Pressure Relief), SmartStart™, SmartStop, and Climate Control. For more information, refer to the therapy device's clinical guide.

Titrate a patient

The EasyCare Tx 2 titration window controls the TxLink 2 and the PAP therapy device.

- Important**
- Do not use the application for clinical purposes if it is started as Windows Administrator. This mode is only for adding new TxLink 2 devices during the initial setup. An Administrator label will appear at the bottom of each window. While it will technically function, all user configurations will be associated with the Administrator's account, not with a standard user account.

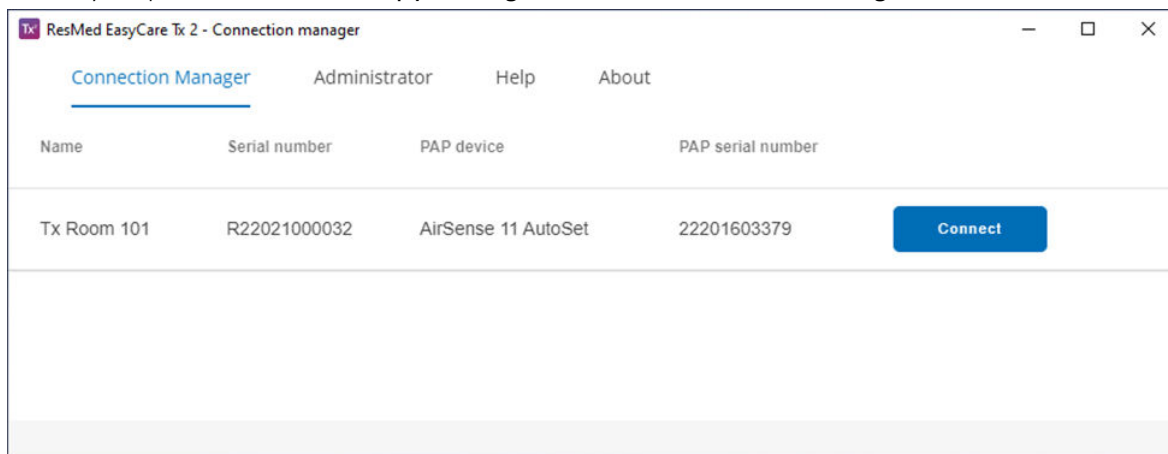
Before and during a titration session, you can perform the following actions:

- Adjust [therapy settings](#)
- Adjust [climate control and humidity settings](#)
- Adjust [system settings](#)
- [Customize real-time data](#)
- [Switch therapy modes](#)
- Adjust the [view of real-time data](#)

Start a therapy session with saved User therapy settings

To start a titration session with a preferred TxLink 2:

1. Log in to EasyCare Tx 2 and select the correct TxLink 2 from the **Connection Manager**.
Note: If only one device is connected to this computer, the titration window will launch instead of **Connection Manager**. **Connection Manager** will only launch when two or more secure TxLink 2 devices are connected.
2. Select your preferred **User therapy settings** from the **Connection Manager** menu.



3. Click **Connect**. A dialog opens to indicate that all preferred settings supported in the selected therapy mode will be applied to the PAP machine.
4. Click **Apply**. The titration window loads with your preferred user therapy settings.
5. When you are ready to start the titration session, toggle the **Therapy off** option to **Therapy on** in the lower left corner.

Start an EasyCare Tx 2 therapy session

To start a titration session with a preferred TxLink 2*:

1. Log in to EasyCare Tx 2 and select the correct TxLink 2 from **Connection Manager**.
If only one device is connected to this computer, the titration window will launch instead of **Connection Manager**. **Connection Manager** will only launch when two or more secure Tx Link 2 devices are connected.



Important

Do not use the application for clinical purposes if it is started as Windows Administrator. This mode is only for adding new TxLink 2 devices during the initial setup. An Administrator label will appear at the bottom of each window. While it will technically function, all user configurations will be associated with the Administrator's account, not with a standard user account.

2. Click **Connect**. The titration window loads.
3. From the **Therapy Mode** list, set the initial therapy mode for the session.

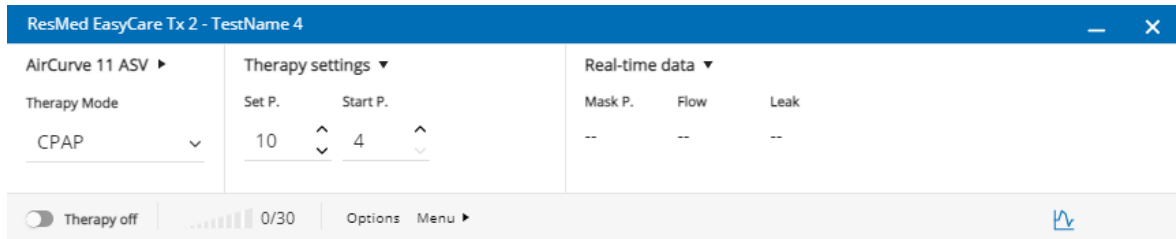


Notice

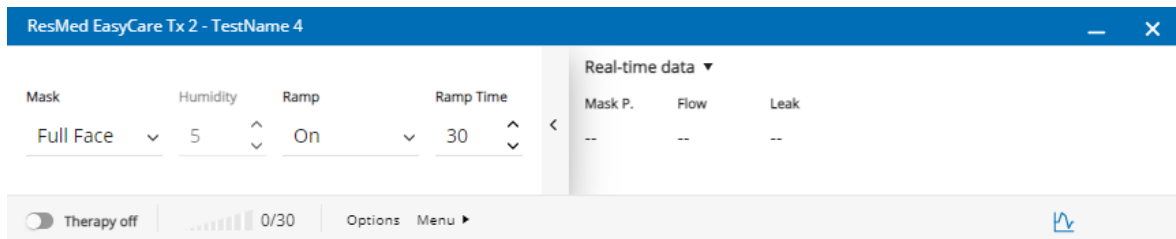
In the titration window, users can click **Options >Therapy settings** and then click the expansion arrow next to **Apply** to **Load** saved user therapy settings.

4. In the **Therapy settings** and **Device settings** options, set each value as required.

EasyCare Tx 2 titration window



5. From the **Ramp** list, choose one of the following settings:
- **Off**: Ramp is turned off.
 - **On**: The pressure will gradually ramp over the period set in the titration window. When you select this option, you must also set the ramp duration.
 - **Auto**: The device will detect sleep onset and automatically rise to the prescribed treatment pressure.



6. When you are ready to start the titration session, toggle the **Therapy off** option to **Therapy on** in the lower left corner.
- Note:** The **Ramp** icon pulses when you select **Auto** to show that AutoRamp™ is active. **AutoRamp** does not display remaining ramp time.



Note

*Therapy options are determined by the connected PAP machine.

Customize the titration window

You can customize EasyCare Tx 2 to suit your preferences with three categories of settings:

1. **Therapy settings**
2. **Device settings**
3. **System setup**

Therapy settings

You can customize the list of parameters that display in the **Therapy settings** section of the titration window.

To configure which therapy settings display in the titration window:

1. Click **Options** to activate a slider window that reveals device (comfort), therapy and system settings.
2. Click **Therapy settings**.
3. From the **Therapy Mode** list, select one of the following modes: **CPAP**, **AutoSet for Her**, **AutoSet**, **S**, **T**, **ST**, **VAuto**, **ASV**, or **ASVAuto**. EasyCare Tx 2 displays all therapy modes available on the connected PAP machine.

EasyCare Tx 2 titration window

- From the expanded screen, select each therapeutic parameter you want to display and control on the titration window. You can also fine tune the therapy parameters, and these changes are reflected on every available therapy mode for that device, if applicable.

- Click **Apply**. The titration window displays the selected therapeutic parameters and their current values.
Note: You can also click the expansion arrow next to **Therapy settings** to list options available for display.



Notice

In the **Therapy settings** window, you can click the expansion arrow next to **Apply** to load preferred user therapy settings

Device settings: mask, Climate Control and humidity settings

- From the titration window, select **Options** to activate the slider menu.
- Click **Device settings**.



Notice

Alternatively, you can click the expansion arrow next to the PAP machine's name (for example, **AirSense AutoSet**) to access a slider menu with device settings.

- From the **Mask** list, select one of the following mask types:
 - Pillows, Nasal, or Full Face.**

- From the **Climate Control** list, select one of the following options:
 - Manual:** Select the required values for **Humidity Level** and **Tube Temperature**.
 - Auto:** Automatically sets the **Humidity Level**. You cannot adjust the humidity settings from within EasyCare Tx 2 when set to **Auto**.

**Important**

EasyCare Tx 2 only displays humidity settings when a humidifier is attached to the PAP therapy device. Similarly, temperature settings only display when a heated tube is connected.

5. From the **Ramp** list, choose one of the following settings:

- **Off:** Ramp is turned off.
- **On:** The pressure will gradually ramp over the period set in the titration window. When you select this option, you must also set the ramp duration.
- **Auto:** The device will detect sleep onset and automatically rise to the prescribed treatment pressure.

**Important**

You can also click the expansion arrow next to the device description (for example, AirSense 11 AutoSet) to list options available for display.

Customize the system setup

From the **System setup** tab, select **Options** to change settings as required. The following table describes the system settings.

General settings	Description
Titration opacity	Adjust the opacity of the titration window by moving the slider. You can adjust the titration window to view the PSG software.
Set titration window on top	Set the titration window to appear on top of all other windows.
Pressure increment	Set the increment of the numeric control settings to 1.0 or 0.2 increments.
Pressure units in	Set the pressure units to hPa or cmH2O.
Flow units	Set the flow units to L/min or L/sec.
Tidal volume units	Set the tidal volume units to L or mL.
Temperature units	Set the temperature units to Fahrenheit (F) or Celsius (C).
Leak alert	If turned on, you can set a value for the leak alert threshold.

Graph and Report settings	Description
Enable live graphs	Toggle this setting On or Off to enable or disable live graphs.

Administrator settings	Description
DC Outputs	Toggle this setting On or Off to display or hide access to DC Outputs .
Administrator tab	Toggle this setting On or Off to display or hide access to the Administrator tab.

ResMed EasyCare Tx 2 - Tx Room 101

AirCurve 11 VPAP Tx
Therapy Mode
T

Therapy settings
Start EPAP 4
EPAP 4
IPAP 6
TI 2
RR 10
Rise Time Min

Real-time data
Mask P 0 cmH2O
Leak 120 L/min
RR 10 breaths/min
Vt 120 mL
MV 1.4 L/min
TgMV --
TI 2 sec

System setup
Therapy settings
Device settings

Pressure increment 1.0
Pressure units in cmH2O
Flow units L/min
Leak units L/min
Tidal volume units mL
Temperature units C

Administrator options
Warning: Changing admin settings may disconnect the TxLink 2 or PAP device.
Administrator access On
DC Outputs access On

Enable live graphs On
Set titration window on top Off
Titration opacity 100%
Leak alert On
Show alert if leak greater than: 24 L/min

Save
Close

Therapy on
4/20
Options
Menu
Chris

View real-time data

EasyCare Tx 2 automatically displays real-time therapy data from the connected therapy device in the titration window. The data displayed depends on the user preferences and therapy device that you selected. For instructions on selecting your preferred data, see [Customize real-time data](#).

Parameter	Description
Mask P (Mask pressure)	Mask pressure (Mask P) is an estimate of the pressure delivered at the mask.
Flow (Patient airflow)	Flow is an estimate of the patient airflow. It is derived by taking the total flow and then removing the leak and mask vent flow components.
Leak	Leak is an estimate of the total rate of air escaping due to mouth and unintentional mask leaks. The correct mask setting is essential for accurate results. When patients sleep, a recommended leak lower than 24 L/min (0.4 L/sec) ensures correct device function, but a leak lower than 12 L/min (0.2 L/sec) is even more accurate. A large leak rate of greater than 24 L/min, or a rapidly fluctuating leak rate may affect the accuracy of other measurements.
RR (Respiratory rate)	Respiratory rate (RR) is the frequency of breathing, expressed as the number of breaths per minute.
Vt (Tidal volume)	Tidal volume (Vt) is the volume of air inspired or expired in one breath (or respiratory cycle).
MV (Minute ventilation)	Minute ventilation (MV) is the estimated volume of air breathed in, or out, within any 60-second period. A typical minute ventilation range for adults is 5-12 L/min.
TgMV (Target minute ventilation)	Target minute ventilation (TgMV) defines the minute ventilation the therapy device attempts to achieve in ASV therapy. Pressure support rises towards the maximum pressure support if the minute ventilation falls below this target, and decreases towards the minimum pressure support if it exceeds the target.
Ti (Inspiratory time)	Inspiratory time (Ti) is the duration of inspiration (the respiratory flow into the lungs), expressed in seconds (a five-breath moving average).
Pulse (Pulse rate)	Pulse rate is the number of heart beats in a 60-second time frame. The pulse rate is calculated by an attached oximeter.
SpO2	SpO2 is the saturation of blood hemoglobin with oxygen, expressed as a percentage. An attached oximeter calculates the pulse rate
I:E	I:E defines the ratio of inspiratory time to expiratory time.

Customize real-time data

You can customize the real-time therapy device data that appears on the EasyCare Tx 2 titration window to suit your preferences.

To customize real-time data:

1. Click **Options**.
2. Click **Therapy settings**.
3. Click **Real-time data** to expand the window.

EasyCare Tx 2 titration window

4. Select the data items you want to monitor.

ResMed EasyCare Tx 2 - Tx Room 101

AirCurve 11 ASV ▾

Therapy Mode: ASV ▾

Therapy settings ▾

Start EPAP	EPAP	Min PS	Max PS
4	13	6	12

Real-time data ▾

Mask P	Flow	Leak	RR	Vt	MV
--	--	--	--	--	--

ASV

ASVAuto

☒ Start EPAP 6 ▾ ☒ Min PS 6 ▾ ☒ Max PS 11.8 ▾ ☒ Min EPAP 10 ▾

☒ Max EPAP 15 ▾

Real-time data

Save as... Load Apply Close

Therapy off 0/20 Options Menu ▾ Chris

5. Click **Save**.



Notice

You can also click the expansion arrow next to **Real-time data** to list real-time options available for display.

Therapy modes

EasyCare Tx 2 supports the following therapy modes which vary depending on the connected therapy device:

Therapy mode	Description
CPAP (Continuous Positive Airway Pressure)	Delivers a fixed pressure with optional Expiratory Pressure Relief (EPR). EPR can improve patient comfort.
AutoSet	Delivers CPAP therapy with optional EPR. Automatically adjusts the CPAP pressure in response to snore, flow limited breaths, and apneas.
AutoSet for Her	Delivers CPAP therapy with optional EPR. Automatically adjusts the CPAP pressure in response to snore, flow limited breaths, and apneas. This mode has a reduced rate of pressure increments compared to AutoSet therapy to help prevent arousals.
S (Spontaneous)	Delivers two treatment pressures (bilevel)—one for inspiration (IPAP) and one for expiration (EPAP). In S mode, the therapy device senses when the patient inhales and exhales and supplies the pressures accordingly.
ST (Spontaneous/Timed)	Delivers two treatment pressures (bilevel)—one for inspiration (IPAP) and one for expiration (EPAP). In ST mode, the therapy device augments every breath initiated by the patient, but also provides additional breaths should the breath rate fall below the clinician's set backup breath rate.
T (Timed)	Delivers two treatment pressures (bilevel)—one for inspiration (IPAP) and one for expiration (EPAP). In T mode, the clinician sets a fixed breath rate and a fixed inspiration/expiration time regardless of patient effort.
VAuto	Delivers two treatment pressures (bilevel)—one for inspiration (IPAP) and one for expiration (EPAP). The VAuto algorithm automatically responds to flow limitations, snores and apneas by adjusting pressure. Clinicians set Pressure Support (PS) , and it remains fixed throughout the session. Min EPAP and Max IPAP settings restrict the delivered pressure range.
ASV	In ASV mode, the clinician adjusts expiratory positive airway pressure (EPAP) to maintain upper airway patency, and sets Min PS and Max PS to restrict the range of automatically adjusted pressure support.
ASVAuto	In ASVAuto mode, the clinician uses an expiratory airway pressure range (Min EPAP and Max EPAP) to automatically adjust and maintain upper airway patency, and restricts the range of automatically adjusted pressure support by Min PS and Max PS settings.

EasyCare Tx 2 can switch therapy modes and change therapy settings (see [Therapy Settings](#)). The therapy settings available change depending on the therapy mode selected.

Adjust CPAP settings

CPAP therapy delivers a fixed pressure with optional Expiratory Pressure Relief (EPR) that can enhance patient comfort.

1. From the **Therapy Mode** menu, select **CPAP**.
2. Use the up and down arrows to adjust the following parameters as required:
 - **Start Pressure:** Initial pressure at the start of ramp. This parameter is available only if you enable the **Ramp** option.
 - **Set Pressure:** This sets the CPAP treatment pressure.
 - **EPR Level:** See [EPR](#).

Adjust AutoSet settings

AutoSet therapy automatically adjusts the CPAP pressure in response to snore, flow limited breaths and apneas, with optional EPR.

1. From the **Therapy Mode** menu, select **AutoSet**.
2. Use the up and down arrows to adjust the following parameters as required:
 - **Start Pressure:** Initial pressure at the start of ramp. This parameter is available only if you enable the **Ramp** option.

- **Max Pressure:** Sets the maximum pressure delivered by the therapy device.
- **Min Pressure:** Sets the minimum pressure delivered by the therapy device.
- **EPR Level:** See [EPR](#).
- **Response:** See [AutoSet Response](#).

Adjust AutoSet for Her settings

AutoSet for Her therapy automatically adjusts the CPAP pressure in response to snore, flow limited breaths and apneas, with optional EPR. This mode has a reduced rate of pressure increments compared to AutoSet therapy to help prevent arousals in patients.

1. From the **Therapy Mode** menu, select **AutoSet for Her**.
2. Use the up and down arrows to adjust the following parameters as required:
 - **Start Pressure:** Initial pressure at the start of ramp. This parameter is available only if you enable the **Ramp** option.
 - **Max Pressure:** Sets the maximum pressure delivered by the therapy device.
 - **Min Pressure:** Sets the minimum pressure delivered by the therapy device.
 - **EPR Level:** See [EPR](#).

S, T and ST settings

This settings group controls several related bilevel therapy modes. In every case, you may set two treatment pressures—one for inspiration (IPAP) and one for expiration (EPAP). **Pressure Support** represents the difference between IPAP and EPAP levels.

S (Spontaneous) mode—senses when the patient inhales and exhales, and accordingly supplies an appropriate pressure.

ST (Spontaneous/Timed) mode—augments any breath taken by the patient, and initiates additional breaths when the patient's breath rate falls below the clinician's set backup breath rate.

T (Timed) mode—you define a fixed breath rate and a fixed inspiration/expiration time delivered to the patient regardless of respiratory effort.

To adjust **S**, **T**, or **ST** settings:

1. From the **Therapy Mode** menu, select the intended mode: (**S**, **T**, or **ST**).
2. Use the up and down arrows to adjust the following parameters:
 - **Start EPAP**
 - **IPAP**
 - **EPAP**
 - **PS**
 - **Respiratory rate**
 - **Ti Max** (see [Ti Min and Ti Max](#))
 - **Ti Min** (see [Ti Min and Ti Max](#))
 - **Ti**
 - **Easy-Breathe** (see [Easy-Breathe](#))
 - **Rise time** (see [Rise Time Adjustment](#))
 - **Trigger** (see [Trigger and Cycle](#))
 - **Cycle** (see [Trigger and Cycle](#)).

VAuto settings

The AutoSet algorithm automatically responds to flow limitations, snores and apneas by adjusting pressure. Clinicians set **Pressure Support** (PS), and it remains fixed throughout the session. **Min EPAP** and **Max IPAP** restricts the delivered pressure range.

To adjust VAuto settings:

1. From the **Therapy Mode** menu, select **VAuto**.
2. Use the up and down arrows to adjust the following parameters:
 - **Start EPAP**
 - **Max IPAP** (see [Min EPAP and Max IPAP](#))
 - **Min EPAP** (see [Min EPAP and Max IPAP](#))
 - **PS**
 - **Ti Max** (see [Ti Min and Ti Max](#))
 - **Ti Min** (see [Ti Min and Ti Max](#))
 - **Trigger** (see [Trigger and Cycle](#))
 - **Cycle** (see [Trigger and Cycle](#)).

ASV settings

ASV therapy treats central sleep apnea and/or mixed apneas and periodic breathing. In ASV mode, you adjust expiratory positive airway pressure (**EPAP**) to maintain upper airway patency, and sets Min PS and Max PS to restrict the range of automatically adjusted pressure support.

To adjust ASV settings:

1. From the **Therapy Mode** menu, select **ASV**.
2. Use the up and down arrows to adjust the following parameters:
 - **Start EPAP**
 - **EPAP** (see [EPAP and Pressure Support](#))
 - **Min PS** (see [EPAP and Pressure Support](#))
 - **Max PS** (see [EPAP and Pressure Support](#)).

ASVAuto settings

ASVAuto therapy treats central sleep apnea and/or mixed apneas and periodic breathing. In ASVAuto mode, you use an expiratory airway pressure range (**Min EPAP** and **Max EPAP**) to automatically adjust and maintain upper airway patency, and restrict the range of automatically adjusted **Pressure Support** (PS) by setting **Min PS** and **Max PS**.

To adjust ASVAuto settings:

1. From the **Therapy Mode** menu, select **ASVAuto**.
2. Use the up and down arrows to adjust the following parameters:
 - **Start EPAP**
 - **Min PS** (see [EPAP and Pressure Support](#))
 - **Max PS** (see [EPAP and Pressure Support](#))
 - **Min EPAP** (see [EPAP and Pressure Support](#))
 - **Max EPAP** (see [EPAP and Pressure Support](#))

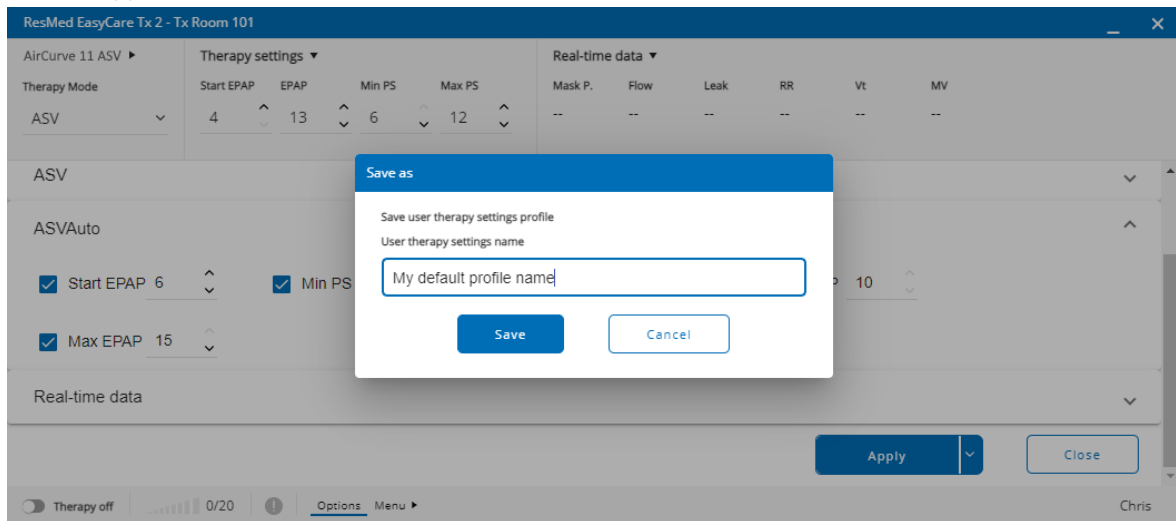
User therapy settings

EasyCare Tx 2 users can save a snapshot of their preferred therapy settings to a named profile to make it easy to load selected workflows.

1. Click **Options**, then **Therapy settings**.
2. Specify your preferred therapy parameters to start titration.
3. Click the expansion arrow next to **Apply**.
4. Select **Save as**.
5. Enter a name or description for this settings profile.
6. Click **Save**.
7. Click **Apply** to send the settings to the PAP machine.

Therapy modes

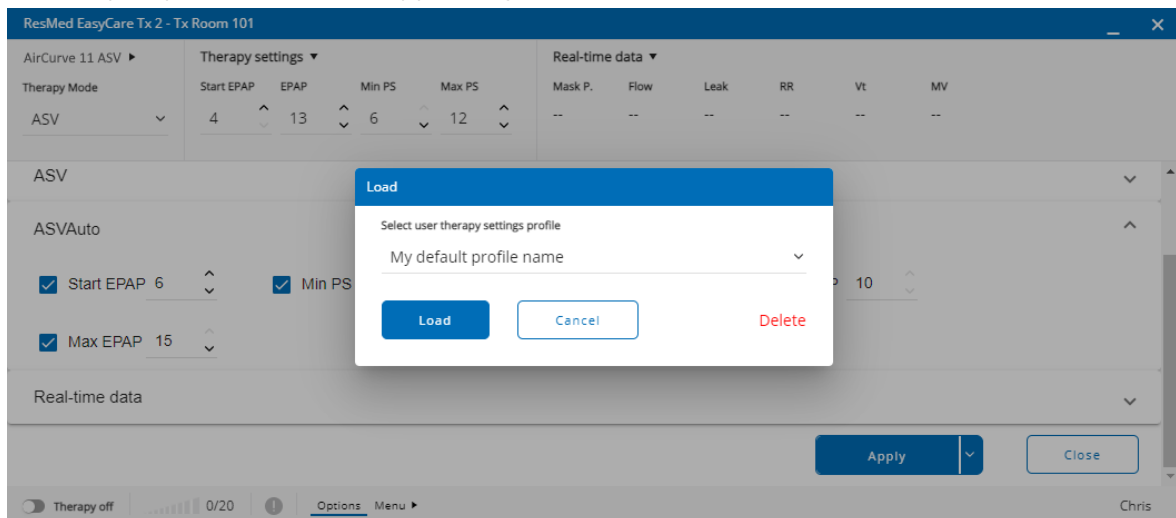
Note: The titration window will update to reflect these settings. If therapy is off, these values will also be applied to the PAP machine.



Load User therapy settings

Users can load [saved User therapy settings](#) in EasyCare Tx 2 to start a titration.

1. In the titration window, click **Options**, then **Therapy settings**.
2. Click the expansion arrow next to **Apply** and select **Load**.
3. Choose your preferred user therapy settings from the menu.



4. Click **Load**.
5. Click **Apply** to send the settings to the PAP machine.

Transition to a different therapy mode

EasyCare Tx 2 allows you to manually switch between therapy modes. These manual transitions allow you to review and adjust all therapy parameters before changing the therapy.

1. From the **Therapy Mode** menu, select the transitional therapy.

Therapy modes

The titration window expands to reveal a **Transition to** section. The following image shows an ASV to ASVAuto transition.

The screenshot displays the ResMed EasyCare Tx 2 - Tx Room 101 interface. The top section shows the current therapy mode as ASV with settings: Start EPAP 4, EPAP 13, Min PS 6, and Max PS 12. The 'Transition to' section shows the target mode as ASVAuto with settings: Start EPAP 4, Min PS 6, Max PS 12, Min EPAP 10, and Max EPAP 15. The 'Real-time data' section shows Mask P., Flow, Leak, RR, Vt, and MV. At the bottom, there is a 'Therapy off' toggle, a progress bar at 0/20, and a 'Save' button. The user's name 'Chris' is visible in the bottom right corner.

2. Make the desired adjustments.
To the right of the **Transition to** section are the **Therapy settings** that you can change. EasyCare Tx 2 displays all available settings that you can change for the new therapy mode. These settings may differ for each transition.
3. Once you are satisfied with your adjustments, click **Save**. The transition begins gently after you click **Save**.



Notice

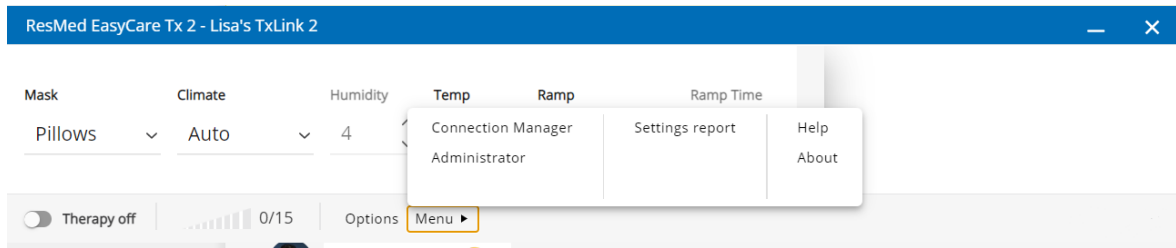
- EasyCare Tx 2 recommends equivalent therapy settings to guide transitions with a blue number, but clinicians can override as required.
- During a therapy mode transition, you can see all available therapy parameters for the selected therapy mode in the **Therapy settings** and **Therapy settings not displayed** sections. After the transition is complete, you can no longer see the therapy parameters in the **Therapy settings not displayed** section. To make these parameters visible again, click the **Options** tab and then click **Therapy settings** (see [Customize the titration window](#)).

Generate a **Settings Report**

EasyCare Tx 2 can create a **Settings report** that highlights the current settings of the connected therapy device.

To generate a **Settings report**:

1. Click the **Menu**.



2. Select **Settings report**.
3. Enter report name.
4. Optional. **Browse** to choose a different location for the saved file.
5. Click **Save**. The saved report displays as a PDF.



Settings Report

Report generated on 1/17/2025, 3:17:10 PM

Device Information

TxLink 2 Name	Tx Room 101
TxLink 2 serial	R22021000025
PAP device	Pacific
PAP device serial	22211316780

Therapy settings

Therapy Mode	AutoSet
Max Pressure	20 hPa
Min Pressure	4 hPa
Start Pressure	4 hPa
Ramp	Auto
AutoSet Response	Standard
EPR	On
EPR Type	Ramp
EPR Level	1 hPa

Climate Settings

Mask	Pillows
Climate Control	Auto
Tube Temperature	Auto



Important

Do not use the application for clinical purposes if it is started as Windows Administrator. This mode is only for adding new TxLink 2 devices during the initial setup. An Administrator label will appear at the bottom of each window. While it will technically function, all user configurations will be associated with the Administrator's account, not with a standard user account.

Generate a **Settings Report**



Note

When saving a report, it defaults to the user's My Documents folder. However, users can choose another location, and the application will remember this for future reports.



Application settings, including system paths, are saved for each user individually. If another user wants to use a shared location, they need to select it the first time they use the system. This applies to all user-specific options, like unit selection.

Real-time graphs

Graphs display data from a device in a graphical format. You can view graphs that display device data in real-time during a titration.

NOTE: The **Enable live graphs** toggle must first be turned on under **Options**.

To review real-time data graphs:

1. Click the graph  icon.
Displayed graphs will match the applied settings on the PAP device.
2. To reorder the displayed graphs for various settings, click and drag the grab  icon



Optional settings that can be applied:

Time span: Sets view to display as little as 10 seconds of data, or as much as one hour.

Reset zoom: Returns the view to 30 seconds

Session: Displays three colors

Real-time graphs

- Blue: indicates the currently visible window
- White: indicates no recorded data
- Grey: indicates undisplayed data.

Live view: Returns to current data.






Configure traces: Sets the displayed graphs, graph colors and parameters.

Red vertical cursor line: Snaps to your cursor and displays a popup of therapy values for that timestamp.

Mask pressure graph

Trigger and Cycle therapy events display on the real-time Mask pressure graph with these symbols:

- Top axis marker presents a circle with **SpontaneousCycle** (blue fill), **SpontaneousTiMinCycle** (purple fill), or **TimedCycle** (orange outline) events only.
- Bottom axis marker presents a triangle with **SpontaneousTrigger** (blue fill) or **TimedTrigger** (orange outline) events only.

Icon	Description
	Spontaneous Cycle: Spontaneous cycled breath marker indicates patient-cycled breath (i.e. inspiratory time is between Ti min and Ti max).
	Spontaneous TiMin Cycle: Spontaneous TiMin cycled breath marker indicates patient-cycled breath with inspiration held until TiMin. (i.e. inspiratory time equal TiMin).
	Timed Cycle: Timed cycled breath marker indicates machine-cycled breath (i.e. inspiratory time equal Ti in PAC and T mode or Timax in S and ST mode).
	Spontaneous Trigger: Spontaneous triggered breath marker indicates patient-triggered breath (i.e. the patient has initiated the breath).
	Timed Trigger: Timed triggered breath marker indicates machine-triggered breath (i.e. breath delivered at the set backup rate or breath rate).

Troubleshooting

Problem	Possible cause	Solution
EasyCare Tx 2 fails to install.	EasyCare Tx 2 supports Windows 10 and Windows 11 operating systems.	Use a computer with a supported operating system (Windows 10 or 11). For additional details, see Recommended system requirements
I am unable to log in to EasyCare Tx 2	The username and/or password you entered are incorrect. Your group policies are preventing you from accessing EasyCare Tx 2. You cannot log in to EasyCare Tx 2 on a computer connected to a different domain.	Contact your Windows system administrator.
My username and password are correct, but I am still not able to log in to EasyCare Tx 2.	Your group policies are preventing you from accessing EasyCare Tx 2 You are attempting to log in to EasyCare Tx 2 on a computer that is connected to a different domain.	Contact your Windows system administrator.
No TxLink 2 devices found on the network.	Power on the TxLink 2 devices.	Plug in and power on the TxLink 2 devices.
	Connect the TxLink 2 devices to the network.	Connect the TxLink 2 devices to the network.
	Connect the computer to the network.	Connect the computer to the network.
	The network is faulty.	Fix or replace faulty network or related components.
Cannot add a TxLink 2 device to Connection Manager .	Log in to EasyCare Tx 2 as a Windows administrator.	Right-click the EasyCare Tx 2 icon and select Run as administrator . Enter your Windows administrator credentials to log in and add the TxLink 2 device.
Lost connection to TxLink 2.	A TxLink 2 power failure.	Plug in and power on the TxLink 2 device. Recycle power. Replace the power cable from another TxLink 2 device to test.
		A general network disruption. Check if the network is working.
TxLink 2 fault.	Indicates a TxLink 2 internal error.	Unplug the TxLink 2 for 30 seconds and then plug it in again. If this step does not resolve the issue, contact ResMed Technical Support.
TxLink 2 is in use.	Another user controls the selected TxLink 2.	The TxLink 2 connects to one computer at a time.
Failed to connect to therapy device.	Powered on the therapy device.	Plug in and switch on the therapy device. Check the power cable. Replace the power cable with a known working cable.
		The cable that connects the TxLink 2 to the therapy device is faulty or not connected properly. Connect the therapy device and TxLink 2.
	The therapy device is not compatible with this version of EasyCare Tx 2 software.	This version of EasyCare Tx 2 does not support the connected therapy device.
Lost connection to therapy device.	The therapy device is not powered on.	Switch on the therapy device.
		Check the cable.
		To isolate the problem, replace the current cable with one known to work.

Troubleshooting

Problem	Possible cause	Solution
	Communications to the therapy device are disrupted.	Reconnect the therapy device and TxLink 2. Replace the current connecting cable with one that is known to work.
Therapy device busy.	The therapy device is performing a Mask Fit function.	Check whether the therapy device is performing a Mask Fit function. If it is, complete the Mask Fit function at the therapy device and try again.
Therapy device fault.	A fault has occurred at the therapy device. This could be the result of an operational or internal error.	Check the titration window in EasyCare Tx 2 or the device itself for the fault description or error code. Refer to any instructions given and to the troubleshooting section of the therapy device's clinical guide. Contact ResMed Technical Support.
EasyCare Tx 2 display is faded.	The Titration opacity setting is too low.	Adjust the Titration opacity setting in your user preferences.
Titration opacity feature is not working properly.	A Windows graphics driver problem.	Update the Windows graphics driver.
Menu items disabled.	The TxLink 2 and/or therapy device is not connected.	Connect the TxLink 2 and/or therapy device.
	The disabled feature is not available on the connected therapy device.	Check these features are available and enable on the therapy device.
Communication problems between therapy device and EasyCare Tx 2.	Correctly connect all cables.	Insert the cable(s) into the correct connector(s).
	A cable or connector is faulty.	Replace the current cable with one known to work. Ensure that you are using ResMed cables.
Device data not displayed on EasyCare Tx 2.	The therapy device is switched off.	Switch on the therapy device and wait a few seconds to establish the connection.
	The therapy device is in standby mode.	Turn on the therapy device.



Important

If any serious incident occurs in relation to this device, you should report it to ResMed and the competent authority in your country.

Glossary

This section defines some key terms used in this help.

Inspiration, expiration and CPAP set pressures

Inspiration Set Pressure, **Expiration Set Pressure** and **CPAP Set Pressure** are DC signals that show setpoint pressures for the current breath. **Inspiration Set Pressure** shows the inspiration pressure delivered by the device for the current breath. **Expiration Set Pressure** shows the expiration pressure delivered by the device for the current breath. **CPAP Set Pressure** shows a combination of inspiration and expiration set pressures. This concept is applicable to all therapies, including automatic modes as shown in the following table.

Therapy	Inspiration Set Pressure	Expiration Set Pressure	CPAP Set Pressure
CPAP	CPAP pressure	CPAP pressure less EPR level	CPAP pressure
AutoSet/AutoSet for Her	Current AutoSet pressure	Current AutoSet pressure less EPR level	Current AutoSet pressure
Bilevel (S, T, ST)	IPAP pressure	EPAP pressure	EPAP pressure
VAuto	Current IPAP	Current EPAP	Current EPAP
ASV	EPAP plus current Pressure Support	EPAP	EPAP
ASVAuto	Current EPAP plus current Pressure Support	Current EPAP	Current EPAP

Inspiration Set Pressure and **Expiration Set Pressure** allow one common PSG montage to capture pressure setpoints during titration of any therapy mode. **CPAP Set Pressure** can be substituted for **Inspiration Set Pressure** if required for compatibility with certain PSG systems.



Important

These signals are available for only some ResMed therapy devices.

EPR

In CPAP and AutoSet modes, EPR is designed to maintain optimal treatment for the patient during inhalation and reduce the delivered mask pressure during exhalation. The desired result of EPR is to decrease the pressure the patient must breathe out against, making the overall therapy more comfortable.

The features of EPR are:

- You can select the following options for **EPR Level**: Off, and 1, 2 or 3 cmH₂O.
- Pressure drop is limited to avoid sub-optimal treatment (maximum drop is 3 cmH₂O).
- When you enable EPR, the delivered pressure will not drop below a minimum pressure of 4 cmH₂O, regardless of the settings.
- You can set EPR to **Ramp** or **Full Time**.

AutoSet Response

For patients who are sensitive to fast changes in pressure during therapy, you can set the **AutoSet Response** to either **Standard** or **Soft**. If you set this feature to **Soft**, patients receive gentler pressure rises during therapy.

This setting is available only when titrating on an AirSense 11 AutoSet device and is not available in all regions.

EPAP and Pressure Support

ASV mode

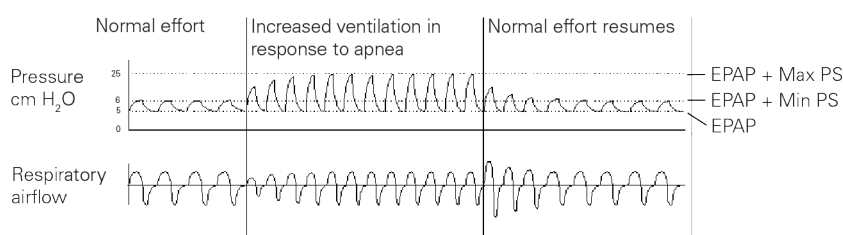
In ASV mode, clinicians set expiratory positive airway pressure (**EPAP**) and adjust it to reduce or eliminate obstructive events. To meet the patient's needs, Pressure Support (PS) varies between Min PS and Max PS values. If required, the device delivers mandatory breaths at the patient's recent spontaneous breath rate, which means that the timed backup rate matches the patient's needs when events occur.

ASVAuto mode

When the device operates in **ASVAuto** mode, it automatically adjusts the expiratory pressure (EPAP) to maintain upper airway patency. The device analyzes the condition of the patient's upper airway for every breath and delivers expiratory pressure within a desired range (**Min EPAP** and **Max EPAP**) to overcome obstructions. The device adjusts EPAP automatically by measuring three parameters: inspiratory flow limitations, snores and obstructive apneas.

Pressure Support

Pressure Support (PS) is the difference between peak pressure as inspiration ends and the minimum pressure as expiration ends (in other words, the amplitude of the pressure waveform delivered to the patient). The AirCurve 11 CS-A PaceWave™ sets pressure support (Inspiration:Expiration and Expiration:Inspiration) trigger points automatically by measuring the patient's respiratory flow. The AirCurve 10 CS-A PaceWave algorithm automatically adjusts pressure delivery to keep the patient's respiratory flow even.



Min/Max Pressure Support

ASV and ASVAuto **Pressure Support** (PS) defines the difference between peak inspiratory pressure and minimum expiratory pressure. ASV and ASVAuto modes automatically adjust pressure support between **Max PS** and **Min PS** to maintain the patient's ventilation target. The pressure support level must have sufficient travel between these settings to allow the algorithm to respond to variations in patient sleep patterns.

Trigger and cycle

Devices with VAuto, S and ST modes have adjustable trigger/cycle sensitivity to optimize changes in patient sleep patterns. Under normal conditions, the device triggers (initiates IPAP) and cycles (terminates IPAP and changes to EPAP) as it monitors and corrects patient respiration. ResMed's VSync automatic leak management recognizes and corrects patient breath patterns.



Note

Trigger and cycle parameters are not available in all regions.

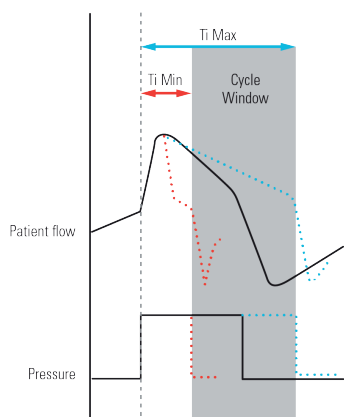
TiControl — Inspiratory time control

Unique to ResMed bilevel devices with VAuto, S and ST modes, TiControl™ allows clinicians to set minimum and maximum limits on the time the device spends in IPAP. The minimum and maximum

time limits are set at either side of the patient's ideal spontaneous inspiratory time, providing a window of opportunity for the patient to spontaneously cycle to EPAP.

The minimum time limit is set via the **Ti Min** parameter and the maximum time limit is set via the **Ti Max** parameter.

TiControl's **Ti Max** and **Ti Min** parameters effectively intervene to limit or prolong a patient's inspiratory time when required. This ensures synchronization, even when mouth and/or mask leaks are significant.



Ti Min and Ti Max

In S, ST, and VAuto modes, the minimum Ti limit is set via the **Ti Min** setting. The maximum Ti limit is set via the **Ti Max** setting.

To guide clinicians, the following table defines **Ti Max** and **Ti Min** values that best correspond to the patient's respiratory rate and inspiration and expiration ratio, depending on the respiratory conditions.

Examples:

- **I:E = 1:1** – **Ti Min** prevents the premature cycling to EPAP for patients whose inspiratory effort is poor.
- **I:E = 1:3** – **Ti Max** limits the inspiration time for patients who require longer expiration times.

Patient breath (BPM)	T _{Tot=60} / BPM (sec)	Inhalation time (sec)	Sufficient inhalation time		Secure exhalation time
		I:E = 1:2 (Reference)	I:E = 1:1		1:E = 1:3
			Ti Min	Ti Max	Ti Max
10	6	2	1.0	2.0	1.5
15	4	1.3	1.0	2.0	1.3
20	3	1.0	0.8	1.5	1.0
25	2.4	0.8	0.7	1.2	0.8
30	2	0.7	0.6	1.0	0.7
35	1.7	0.6	0.5	0.8	0.7
40	1.5	0.5	0.5	0.7	0.7

Easy-Breathe

Easy-Breathe is a comfort setting available in S mode. The Easy-Breathe waveform recreates a patient's individual breathing pattern, so breathing feels more natural and therapy is more comfortable.

Rise Time adjustment

In S, ST and T modes, **Rise Time** sets the time taken for the device to reach IPAP. As rise time increases, the longer the device takes to increase pressure from EPAP to IPAP. Patients with high

ventilatory requirements often prefer shorter rise times, while patients who are slow breathers often prefer longer rise times.

**Note**

A prolonged rise time inhibits fast pressurization; therefore, rise time should not be set longer than **Ti Min** or the patient's normal inspiratory time.

Min EPAP and Max IPAP

In **VAuto** mode, Pressure Support (PS) allows you to set the difference between inspiratory and expiratory pressure. **Min EPAP** and **Max IPAP** settings allow you to restrict the range of pressures in which the AutoSet algorithm operates.

The **AutoSet** pressure varies across the session according to the patient's needs. It responds to snoring, apneas and flow limitation of the patient's flow curve.

Clinicians can adjust **Min EPAP** and **Max IPAP** to deliver upper and lower pressure limits.

Admin: Configure a TxLink 2 device



Note

While these options are accessed via the **Administrator** tab, they do not require admin privileges.

After you connect the TxLink 2 device to your computer using the supplied USB cable and turn on the TxLink 2, you can configure the TxLink 2 device settings in EasyCare Tx 2.

1. Launch EasyCare Tx 2, then click the **USB** tab.
2. Click **Settings**.
3. Configure the following settings:

Field	Description
Name	Enter a name for the TxLink 2, such as "Ward 1 - Bed 1". The EasyCare Tx 2 Connection Manager displays this name.
Dim LEDs for sleep	On —Use this setting to minimize patient disturbance during titration. This setting dims the power LED and turns off the PAP machine and network LEDs during titration. Off —The LEDs operate with full brightness at all times.
Obtain IP automatically ¹	If the TxLink 2 connects to a DHCP managed network, select this option. This is the default setting.
Use the following ¹	For networks requiring fixed IP addressing, enter the IP address allocated by your network administrator.
Subnet mask ¹	Enter the subnet mask.
Default gateway ¹	Enter the default gateway address.

¹Contact your network administrator for the correct settings to use.



Important

For detailed information on setting IP addresses and other configurable administrative options, see the Titration Equipment Installation Guide.

ResMed EasyCare Tx 2 - Administrator

Connection Manager Dashboard Add **USB** Help About

Name: Tx Room 101

LED state: Dim LEDs for sleep ☒ On

Display access code

Reset device security

IP address: ☐ Obtain IP automatically ☒ Use the following

192.168.1.36

Subnet mask: 255.255.255.0

Default gateway: 192.168.1.1

MAC address: 50:2d:f4:2a:f3:6f

Serial number: R22041200023

TxLink 2 version: 2.240.2

Upgrade Save Cancel

jude.

To upgrade the firmware on your TxLink 2 device:



Note

Users must upgrade the firmware via USB cable on older **TxLink 2** devices before these devices can be added to Connection Manager (version 1.3 and newer) over ethernet.

1. Select the **USB** tab.
2. Click **Upgrade firmware**.



Note

A progress bar follows the update. Allow it to finish.

3. Once the update is complete, power cycle the PAP machine and TxLink 2.

To manage connection security on your TxLink 2 device:

- Click **Display access code** to view the access code for the Tx Link 2 device. You can use the access code to connect a TxLink 2 device to more than one EasyCare Tx 2 instance.
- Click **Reset device security** to break all secure connections to the TxLink 2 device.

Event logs

EasyCare Tx 2 maintains a log of activities carried out by each user who logs in. These logs are stored with other Windows event logs, and you can view them using the Event Viewer utility from Microsoft.









- Attempts to start EasyCare Tx 2, along with the username supplied at login and an indication of whether or not access to EasyCare Tx 2 was granted.
- Attempts to close EasyCare Tx 2, along with the username supplied at the time of login.
- Successful connection to a TxLink 2 unit, along with the username at the time of login and the name of the TxLink 2 unit that was accessed.

Logs are recorded in the default language set on your computer as long as that language is supported by EasyCare Tx 2. If your language is not supported by EasyCare Tx 2, all logs are recorded in English.


Technical data

Symbols

Software and packaging

Symbol	Description
	Caution, consult accompanying documents.
	Batch code
	Catalog number
	Manufacturer
	European Authorized Representative
	Follow instructions for use
	Prescription only
	ResMed Schweiz GmbH Viaduktstrasse 40 4051 Basel CH

Help

Symbol	Description
	Indicates a warning or caution and alerts you to a possible injury or explains special measures for the safe and effective use of the device and software.