



RESMED 22206 Reslink Module User Manual

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RESMED

RESMED 22206 Reslink Module



INTRODUCTION

The RESLINK™ is a device designed for use with ResMed flow generators to help your clinician monitor your sleep and ensure that you are receiving optimal treatment. When connected to the flow generator, the REDLINK records treatment and pulse oximetry data during therapy. The data is stored on a SmartMedia™ card—a memory card capable of storing up to 30 sessions of detailed data. After treatment, the SmartMedia card containing the data can be removed from the RES LINK device and sent to your clinician for review.

RESLINK AND 58™ RESLINK

The Relink device is available in two different mechanical forms (REDLINK and S8 RES LINK) for different families of flow generators. The REDLINK and the S8 REDLINK function in the same way, but they attach to and detach from the flow generator in different ways. When the word 'REDLINK' is used in a general sense, it applies to both RESLINK and S8 REDLINK. See "Compatible flow generators" on page 18 to see which device is used with each flow generator. Note: The 58 ResLink may not be available in all regions.

USER/OWNER RESPONSIBILITY

- The user or owner of this system shall have sole responsibility and liability for any injury to persons or damage to property resulting from:
- the operation which is not in accordance with the operating instructions supplied
- maintenance or modifications carried out unless in accordance with authorised instructions and by authorized persons.

INTENDED USE

The RES LINK is an accessory to ResMed flow generators that are used for the treatment of Obstructive Sleep Apnoea (OSA) in adult patients. RES LINK is for home and hospital use.

WARNINGS AND CAUTIONS

A Caution explains special measures for the safe and effective use of the device. The following are general warnings and cautions. Specific warnings and cautions appear next to the relevant instructions in the manual.

- Use the REDLINK only for its intended use as described in this manual.
- The REDLINK is compatible for use with certain ResMed flow generators only. See “Compatible flow generators” on page 18 for details. Do not use the REDLINK with any other flow generators.
- Make sure that the flow generator is turned off before connecting or disconnecting the REDLINK.

INTRODUCTION

- Do not attempt to dismantle the REDLINK. There are no user-serviceable parts inside. Repairs and internal servicing should only be performed by an authorized agent
- There is a serial (9-pin) port at the back of some flow generators. Do not connect the NONIN® Xpod connector into the serial port as it may damage the oximeter.
- SmartMedia cards should be obtained only from ResMed as custom upgrade software may be required for the operation of the ResLink
- Avoid touching the gold contacts on the SmartMedia card.
- The SmartMedia card should be kept in its plastic sleeve when not in use. This is because dirt may interfere with the REDLINK operation.
- Do not use the REDLINK in the presence of flammable or explosive materials.
- From time to time, electronic devices can be affected by irregularities in the electrical power supply. It is important to periodically check that the REDLINK is working correctly by checking the flow generator Liquid Crystal Display (LCD) for any error messages. This includes checking the pulse oximeter probe for correct operation by inspecting that the Light Emitting Diode (LED) on the finger probe is illuminated when the flow generator is turned on. Contact your equipment supplier if you have any concerns about correct operation of the REDLINK.

THE REDLINK SYSTEM

The REDLINK system (REDLINK and SmartMedia card) is illustrated in sections A, B and C on the illustration sheet.

ACCESSORIES

See section D on the illustration sheet (8000) Adult Flex Sensor only illustrated). The NONIN® Model 3012 Pulse Oximeter is compatible for use with the REDLINK. It can be used with either the 8000) Adult Flex Sensor or 8000AA Adult Finger Clip. The same oximeter cable can be used for either sensor. These accessories are available from ResMed.

SETTING UP THE REDLINK

See sections E and F on the illustration sheet Note: Your clinician may have already set up the ResLink for you.

INSERTING THE CARD

CAUTION

Avoid touching the gold contacts on the SmartMedia card.

1. Open the REDLINK cover.
2. Insert the SmartMedia card into the card slot on the REDLINK (E-1). Make sure that the card is aligned as shown in the diagram.
3. Close the cover after inserting the SmartMedia card.

REDLINK

1. Ensure that the flow generator is powered off before attaching the SS REDLINK. You will need to turn the power off at the wall outlet.
2. Take off the module currently attached to the flow generator (F-1) and store it in the flow generator bag.
3. Push the SS RESLINK onto the flow generator (F-2), making sure that both the top and bottom latches engage firmly with the flow generator. Note: The SB ResLink does not have a locking lever.
4. When attached, the SS RESLINK should fit closely onto the back of the flow generator (F-3).

CONNECTING AN OXIMETER TO THE RESLINK (OPTIONAL)

Your clinician may have supplied an oximeter for use with the REDLINK. Connecting an oximeter to the REDLINK allows collection and storage of oximetry data (oxygen saturation and pulse rate).

5. Ensure that the sensor cable is properly connected to the Xpod connector (see illustration D).
6. Insert the oximeter plug into the RESLINK oximeter port (E-6).

Your clinician will have attached the sensor to the adhesive side of the FlexiWrap.

1. Remove the adhesive backing from the FlexiWrap.
2. Carefully position any one of your fingers (not the thumb) on diode A on the FlexiWrap (G-1). Wrap the two small lower flaps onto the sides of your finger.
3. Carefully fold the FlexiWrap over the tip of your finger (G-2). Diode B must be positioned on your fingernail. Check that the two diodes are aligned, with B directly above A (G-3).
4. Wrap the long flap around your finger to secure the sensor (G-4). The FlexiWrap should feel firm, but not uncomfortably tight.
5. Secure the sensor wire to the base of the finger or wrist using medical tape (G-5).

ATTACHING THE NONIN 8000AA ADULT FINGER CUP

See section H on the illustration sheet

1. Open the Finger Clip (H-1) and place your finger inside the device (H-2).
2. Close the Finger Clip (H-3).
3. Secure the sensor wire to the base of the finger or wrist using medical tape.

Note: For more details, please refer to the user guide supplied with the oximeter

USING THE RELINK

1. Turn on the flow generator. A series of messages will be displayed on the flow generator LCD. When the following message is displayed, you know that the link is correctly connected. SXISS 0301 nk — The number displayed will software reflect the Relink
2. If necessary, the software in your flow generator will be automatically upgraded. The upgrade ensures that your flow generator is compatible for use with the REDLINK.

If WARNING

3. The flow generator will not deliver therapy during the upgrade. Do not put the mask on until the upgrade is completed. During the upgrade, the LCD backlight flashes, and the following is displayed:

UPG ADDING, WAIT.

On some flow generators, this screen may be shown in multiple languages prior to the upgrade. The upgrade can take up to 20 minutes. Please wait for completion. When the upgrade is successful the WELCOME screen

will be displayed on the LCD. Note: If the upgrade is interrupted for any reason, turn the flow generator off, ensure the ResLink is properly attached and the SmartMedia card is inserted, then turn the flow generator back on to restart the upgrade. Note that the LCD message may not be shown following an interruption; the screen may be blank for up to 20 minutes during the upgrade.

USING THE RELINK 7

STARTING TREATMENT

Start treatment as described in the flow generator User's Manual. The ResLink will automatically collect and store treatment data

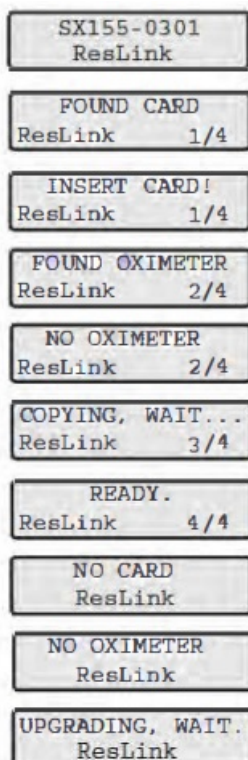
STOPPING TREATMENT

Press the Front key on your flow generator to stop therapy at the end of the night. If attached, remove the oximeter sensor from your finger. After stopping therapy on the last night that you use the REDLINK, wait for 15 minutes then turn off your flow generator at the power switch.

LCD MESSAGES

You may see the following REDLINK messages briefly displayed on the flow generator LCD to inform you about the operation of the REDLINK. These messages will be interspersed with other flow generator messages

1. Successful ResLink connection (number displayed will be current
2. ResLink software version) detected
3. SmartMedia Card has been detected
4. SmartMedia Card has not been
5. Oximeter is present
6. Oximeter is not present
7. Summary data is being copied to the SmartMedia Card ResLink ready to record Detailed Data
8. SmartMedia Card has been removed Oximeter has been disconnected
9. The flow generator is being upgraded by the ResLink



When an oximeter is attached, a set of six messages similar to those shown below is displayed in sequence.

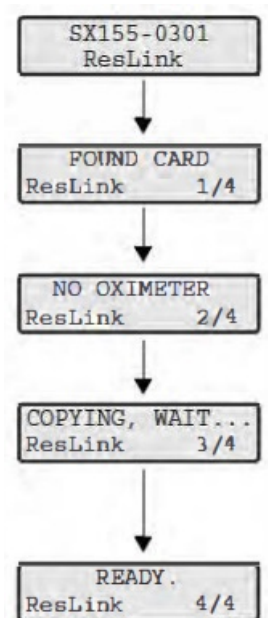
These messages indicate the current oxygen saturation (SpO₂) and heart rate being measured by the oximeter. They are intended to assist you in making sure that the oximeter is correctly attached. The sequence runs for approximately one minute.

TYPICAL SCENARIOS

SCENARIO 1: NO OXIMETER ATTACHED

This scenario shows the typical sequence of messages displayed when the RES LINK has been correctly set up, the flow generator is powered on and no oximeter is attached. These messages will be interspersed with other flow generator messages.

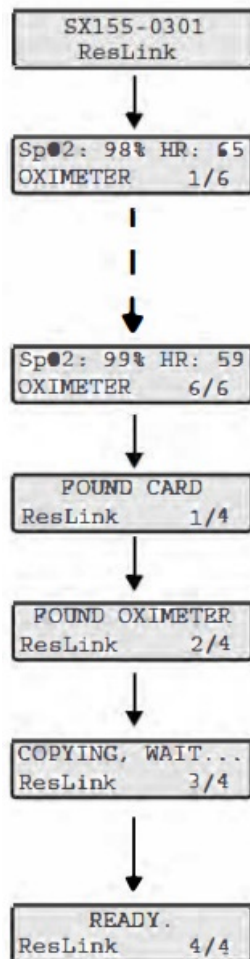
1. Successful Reslink connection
2. Indicates that the SmartMedia Card is present Indicates that the oximeter is not attached
3. This screen is displayed on the LCD for 2-5 minutes depending on the amount of Summary Data being transferred.
4. Indicates that the ResLink has finished copying the Summary Data and is now ready to log Detailed Data.
5. This screen clears after a few seconds.



SCENARIO 2: OXIMETER ATTACHED

This scenario shows the typical sequence of messages displayed when the RES LINK has been correctly set up, the flow generator is powered on and an oximeter is attached. These messages will be interspersed with other flow generator messages.

1. Successful Reslink connection First oximetry message.
2. There are 6 messages. Each message is shown for a 5-second interval and then removed. ECL for 5 seconds . last oximetry message.
3. present indicates that SmartMedia card is present Indicates that the oximeter is This screen is displayed on the LCD for 2-5 minutes depending on the amount of Summary Data being transferred.
4. Indicates that the ResLink has finished copying the Summary Data and is now ready to log Detailed Data.
5. This screen clears after a few seconds



DISCONNECTING THE REDLINK

RES LINK

1. Turn the flow generator power off using the power switch.
2. Slide the lever at the back of the REDLINK to the left (E-2). This unlocks the RESLINK from the flow generator.
3. Carefully pull the REDLINK away from the flow generator (1-2, 1-3).
4. Store the REDLINK in its pouch.

S8 RELINK

5. Turn the power off at the wall outlet
6. To remove the S8 RES LINK from the flow generator. grip it from the top 0-1).
7. Pull the S8 REDLINK away from the flow generator 0-2).
8. Take the module that you took off the flow generator (F-1) and put it back on in its original place.
9. Store the S8 REDLINK in its pouch.

RETURNING THE RES LINK TO YOUR CLINICIAN

If you are returning the REDLINK to your clinician, leave the SmartMedia card in place. Put the RES LINK in its pouch and contact your clinician or equipment supplier for details regarding the return.

RETURNING THE SMARTMEDIA CARD TO YOUR CLINICIAN

If you are returning only the SmartMedia card to your clinician:

10. Open the REDLINK cover and remove the SmartMedia card. Close the cover after removing the SmartMedia card.
11. Place the SmartMedia card in its plastic sleeve.

12. Place the SmartMedia card in the mailback card supplied with the REDLINK

CLEANING AND MAINTENANCE

- Avoid exposing the Reslink to moisture and extreme temperatures.

- **CLEANING THE RESLINK**

If necessary, wipe the outside of the RES LINK with a clean cloth.

- **CLEANING THE OXIMETER**

- If necessary, wipe the surfaces with a soft cloth dampened with isopropyl alcohol or a mild detergent.
- Dry with a soft cloth or allow to air dry.

Note: The oximeter cable and Xpod connector can be wiped with a clean cloth.

Do not autoclave or immerse this device in liquid or use caustic or abrasive cleaning agents or any cleaning products containing ammonium chloride.

- **CLEANING THE OXIMETER SENSOR**

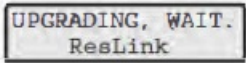
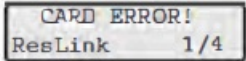
For instructions on cleaning the oximeter sensor, please refer to the user guide supplied with this device.

- Do not use liquids to clean any part of the sink.
- Do not attempt to dismantle the Relink. Under no circumstances should you attempt to service or repair the device yourself. There are no user-serviceable parts inside. Inspection and repair should only be performed by an authorised agent.

TROUBLESHOOTING

If there is a problem, try the following suggestions. If the problem cannot be solved, contact your equipment supplier. Do not attempt to open the REDLINK.

Problem	Possible Cause	Solution
Difficulty attaching the ResLink to the flow generator.	Incompatible flow generator.	The ResLink AND S8 ResLink are compatible for use with certain ResMed flow generators only. See "Compatible flow generators" on page 18.
	The ResLink may be attached incorrectly.	See "Attaching the ResLink" on page 5.
Flow generator and ResLink not working (no display on LCD).	Power cord is not plugged into the flow generator or power outlet properly.	Check that the power cord is plugged firmly at the back of the flow generator and into a working power outlet.
	Flow generator not powered on.	Check that the flow generator is turned on.
	Faulty power outlet.	Try another power outlet.
Flow generator LCD continuously displays black boxes or blank screen on power up.	Previous failed software upgrade.	Power off the flow generator. Attach ResLink with a SmartMedia card inserted. Power on the flow generator. Allow 20 minutes for the software upgrade. Note: During the upgrade the 'UPGRADING, WAIT' screen may not be displayed.
<p>The following messages are displayed on the LCD of an AutoSet CS2 flow generator that has had a ResLink connected:</p> <div data-bbox="347 1008 588 1068" data-label="Text"> <p>No signature and bad CRC</p> </div> <div data-bbox="347 1111 588 1171" data-label="Text"> <p>Waiting for File upload</p> </div>	Upgrade failed due to loss of power to the AutoSet CS2.	Power off the flow generator. Attach ResLink with a SmartMedia card inserted. Power on the flow generator. Allow 20 minutes for the software upgrade. Note: During the upgrade the 'UPGRADING, WAIT' screen may not be displayed.

Problem	Possible Cause	Solution
The 'Successful Reslink connection' message (see page 8) is not displayed after power up.	The RESLINK is not securely attached to the flow generator.	Power the flow generator off. Ensure that the RESLINK is securely connected to the flow generator. Also ensure that the lever at the back of the RESLINK is in the lock position. Power the flow generator back on. For the S8 RESLINK make sure that the top and bottom latches are secured properly.
	Incompatible flow generator.	The RESLINK and S8 RESLINK are compatible for use with certain ResMed flow generators only. See "Compatible flow generators" on page 18.
	Faulty RESLINK.	Contact your equipment supplier.
Difficulty inserting the SmartMedia card into the RESLINK.	Incompatible memory card used.	Ensure that a SmartMedia card, obtained from ResMed only, is used.
	The SmartMedia card is inserted incorrectly.	See "Inserting the Card" on page 5.
A SmartMedia card is inserted but  is not displayed.	Software upgrade not required.	This is OK. Continue with setup.
The following is displayed on the LCD when a SmartMedia card is inserted and the flow generator is powered on: 	SmartMedia card cannot be accessed—it may be partially inserted. Alternatively, the gold contacts could be dirty.	Power the flow generator off. Remove and then re-insert the SmartMedia card.
	The SmartMedia Card may be damaged.	Contact your equipment supplier.
During software upgrade, a blank screen is displayed on the LCD.	Loss of power supply to the flow generator.	Power the flow generator off. Re-insert the SmartMedia card. Check the power supply to the flow generator. Power the flow generator back on. See "Using the ResLink" on page 7.

Problem	Possible Cause	Solution
<p>A SmartMedia card containing upgrade software is inserted and the following is displayed on the LCD:</p> <div>UPGRADE FAILED ResLink</div>	<p>Incompatible flow generator, or alternatively the flow generator cannot be upgraded.</p> <p>Flow generator was delivering therapy.</p>	<p>Power the flow generator off. Remove the RESLINK with SmartMedia card inserted. Contact your equipment supplier.</p> <p>Stop therapy. Power the flow generator off. Check the power supply to the flow generator. Power the flow generator back on. See "Using the ResLink" on page 7.</p>
<p>Difficulty inserting the oximeter into the RESLINK.</p>	<p>Incompatible oximeter used.</p> <p>Oximeter plug not oriented correctly.</p>	<p>Ensure that a NONIN (Model 3012) Pulse Oximeter is used. See "Connecting an Oximeter To the ResLink (optional)" on page 6.</p> <p>See "Connecting an Oximeter To the ResLink (optional)" on page 6.</p>
<p>The following message is displayed on the LCD:</p> <div>OXIMETER FAULT ResLink</div>	<p>Incompatible oximeter.</p> <p>The oximeter sensor cable and Xpod connector are not properly connected.</p> <p>Faulty oximeter.</p>	<p>Ensure that a NONIN (Model 3012) Pulse Oximeter is used.</p> <p>Ensure that the oximeter sensor cable and Xpod connector are properly connected.</p> <p>Contact your equipment supplier.</p>
<p>The following message is displayed on the LCD:</p> <div>INSERT CARD! ResLink 1/4</div>	<p>The SmartMedia card has not been inserted or correctly positioned in the RESLINK.</p>	<p>Power off the flow generator, re-insert the SmartMedia card and power the flow generator back on.</p>
<p>The following message is displayed on the LCD for more than 20 minutes and never leaves this state.</p> <div>UPGRADING, WAIT. ResLink</div>	<p>Software upgrade not yet completed.</p> <p>The SmartMedia card has been removed during software upgrade.</p> <p>Faulty SmartMedia card.</p> <p>Damaged flow generator.</p>	<p>Wait another 10 minutes.</p> <p>Power the flow generator off. Re-insert the SmartMedia card. Power the flow generator back on. See "Using the ResLink" on page 7.</p> <p>Power the flow generator off. Contact your equipment supplier.</p> <p>Power the flow generator off. Contact your equipment supplier.</p>

1-2, for residential, commercial and light industry environments.

Environmental Conditions

- Operating Temperature: 5 °C to 40°C
- Operating Humidity: 10% to 95% non-condensing
- Storage and Transport Temperature: -20°C to 60°C
- Storage and Transport Humidity: 10% to 95% non-condensing
- **NONIN MODEL 3012 PULSE OXIMETER, 8000J ADULT FLEX SENSOR, AND 8000M ADULT FINGER CUP**
- 70-100% ± 3 digits
- Pulse rate
- 18 to 300 pulses per minute ± 3% ± 1 digit
- Environmental Conditions
- Operating Temperature: 0°C to 50°C
- Operating Humidity: 10% to 90% non-condensing
- Storage and Transport Temperature: -20°C to 50°C
- Storage and Transport Humidity: 10% to 95% non-condensing


COMPATIBLE FLOW GENERATORS

Compatible with ResLink	Compatible with S8 ResLink
AutoSet Spirit™	S8 AutoSet Spirit™
VPAP™ III series	S8 Elite™
S7™ Elite	S8 AutoScore™
AutoSet CSM2	S8 AutoSet Vantage™
VPAP™ Adapt SV	S8 AutoSet Spirit™ II
VPAP™ Malibu	S8 Elite™ II
	S8 AutoScore™ II
	VPAP™ Auto
	S8 AutoSet™ II

GLOSSARY OF SYMBOLS

WEEE 2002/96/EC is a European Directive that requires the proper disposal of electrical and electronic equipment. This device should be disposed of separately, not as unsorted municipal waste. To dispose of your device, you should use the appropriate collection, reuse, and recycling systems available in your region. The use of this collection, reuse, and recycling systems is designed to reduce pressure on natural resources and prevent hazardous substances from damaging the environment. If you need information on these disposal systems, please contact your local waste administration. The crossed-bin symbol invites you to use these disposal systems. If you require information on the collection and disposal of your ResMed device please contact your ResMed office, or local distributor or go to www.resmed.com/environment

Documents / Resources

	<p>RESMED 22206 Reslink Module [pdf] User Manual 22206 Reslink Module, 22206, Reslink Module</p>
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References

- [R Sleep apnea and COPD - learn about symptoms and treatment | ResMed](#)