



## Transcend Micro<sup>®</sup> 510



## User Manual

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This device is available only with a prescription from a licensed healthcare provider, as required by U.S. federal law.

## Indications for Use

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The Transcend Micro 510 provides positive airway pressure for treatment of obstructive sleep apnea (OSA) in adults weighing over 66 pounds (30 kg). The device is intended for home and hospital/institutional use.

## Contraindications

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The Transcend Micro 510 may be contraindicated in patients with the following conditions:

- Bullous lung disease
- Pathologically low blood pressure, particularly if associated with intravascular volume depletion.
- Pneumothorax or pneumomediastinum
- Pneumocephalus has been reported in some users using nasal PAP.

Caution should be used when prescribing PAP for susceptible users such as those with any of these conditions:

- Cerebral spinal fluid (CSF) leaks
- Abnormalities of the cribriform plate
- A prior history of head trauma
- Pneumocephalus

## Adverse Effects

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You should report unusual chest pain, severe headache, or increased breathlessness to your prescribing physician. An acute upper respiratory tract infection may require temporary discontinuation of treatment.

The following side effects have been reported by users of airway delivery devices during CPAP therapy.

- Congestion or mucus in the throat
- Sneezing or cough
- Bloating
- Nocturnal waking
- Feelings of claustrophobia
- Burn
- Irritation/dryness of the mouth, nose, or throat
- Nosebleed
- Skin rashes
- Eye irritation
- Ear or sinus discomfort

## Components and Accessories

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### Standard Components and Accessories Provided

- Transcend Micro 510
- Transcend Micro CPAP Case
- TransFlex™ 6' Hose
- Transcend WhisperSoft® Micro Muffler
- Transcend Micro 510 Quick Guide
- AirMist HME 1+1 Pack
- Premium Hypoallergenic Air Filter 1 Pack
- Power supply: 40W AC (PSA4 or PSA5)

### Compatible Components and Accessories – Sold Separately

Contact your CPAP supplier to order the following components/accessories:

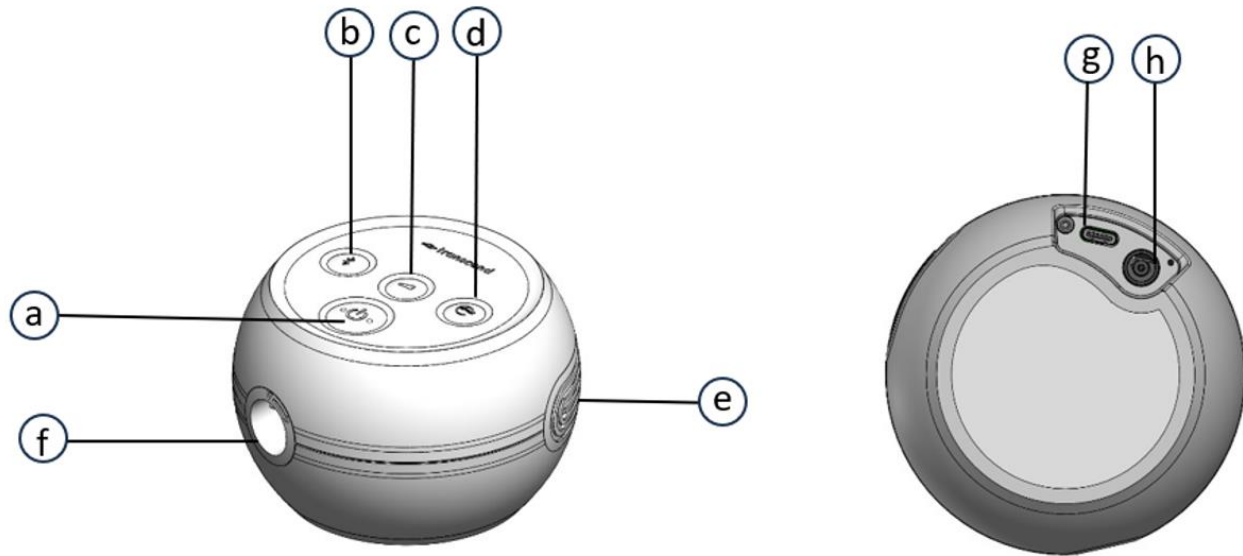
- |                                                                 |              |
|-----------------------------------------------------------------|--------------|
| • Transcend Micro 510 Essentials Pack                           | (P/N 505053) |
| • Transcend Micro 510 Resupply Pack                             | (P/N 505054) |
| • Transcend AirFlex® Micro 6 (6-Ft Air Hose)                    | (P/N 505004) |
| • Transcend AirFlex® Micro 4 (4-Ft Air Hose)                    | (P/N 503119) |
| • Transcend AirMist™ Starter Pack (1 HME Adaptor, 2 Cartridges) | (P/N 505030) |
| • Transcend AirMist™ (1 HME Adaptor, 4 Cartridges)              | (P/N 505009) |

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- Transcend AirMist™ Cartridges 4 Pk (P/N 505014)
  - Transcend AirMist™ Cartridges 8 Pk (P/N 505015)
  - Transcend AirMist™ Cartridges 12 Pk (P/N 505016)
  - Transcend Micro Whispersoft Muffler - Transflex (Hose + Muffler) (P/N 505038)
  - Transcend Micro 510 Standard Woven Air Filter (P/N 505051)
  - Transcend Micro 510 Premium Hypoallergenic Air Filter (P/N 505052)
  - Transcend Micro PowerAway® Battery (P/N 505001)
  - Transcend Micro PSA4 Power Supply (P/N 505032)
  - Transcend Micro PSA5 Power Supply (P/N 505010)
  - Transcend SunWatt™ Solar Charger (P/N 505049)
  - Transcend Micro CPAP Case (P/N 505050)
  - Transcend SleepPak™ Travel Bag (P/N 505008)
  - Transcend Travel Pouch (P/N 505041)
  - Transcend Hose Holder (P/N 505040)
  - Transcend International Plug Adapter Kit for PSA4 Power Supply only (P/N 505037)
  - Transcend Travel Plug adapters (AU/EU/UK) for PSA5 Power Supply (P/N 505035)
  - Patient CPAP Mask (See website for more information)

**NOTE:** The Transcend Micro 510 is compatible with all CPAP masks with standard 22mm connections

[www.mytranscend.com/product-category/replacement-parts/masks/](http://www.mytranscend.com/product-category/replacement-parts/masks/)

## Your Transcend Micro 510



a - Power button



b - Bluetooth button



c - Pressure ramp button



d - Dry cycle button



e - Air filter cover

f - Air outlet

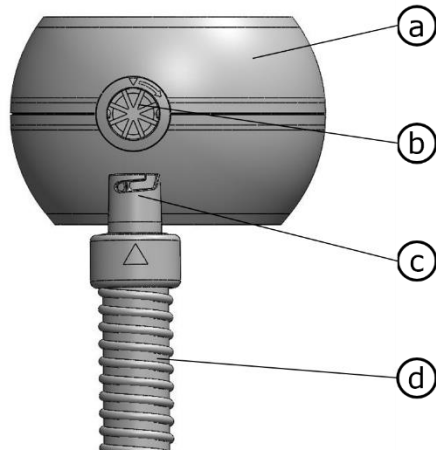
g - USB-C data port

h - Power supply inlet



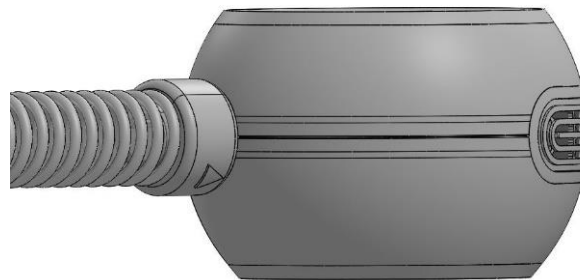
## Setting Up Your Transcend Micro 510

**NOTE:** Use only Transcend Micro 510 parts (e.g., air filter, muffler, battery, and power supply) and accessories with the device. The warranty does not cover damage resulting from the use of non-Transcend parts and accessories.



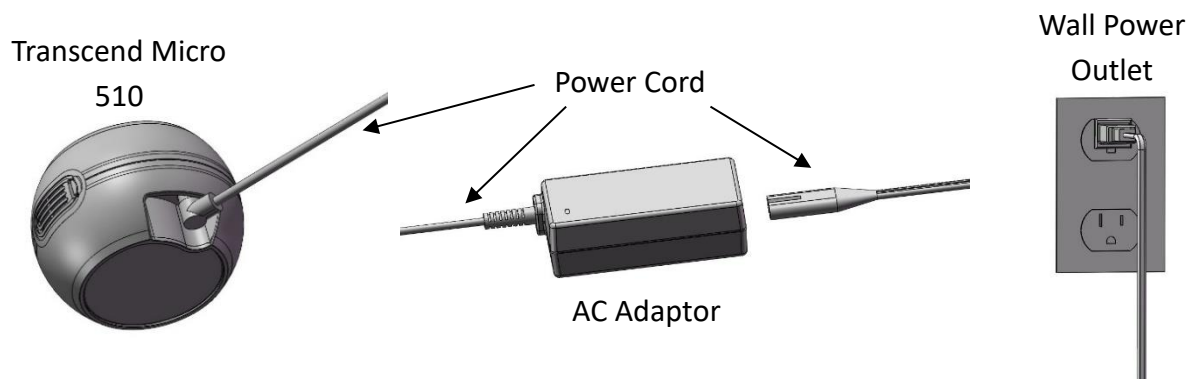
- a. Transcend Micro 510 device
- b. Air outlet
- c. Air hose coupler
- d. TransFlex or AirFlex hose

1. Connect the hose firmly to the air outlet on the device by inserting the hose coupler into the air outlet on the device.
2. Locate the arrow on the air hose coupler and arrow on the device.
3. Align the arrows and gently insert at a slight angle and twist the air hose coupler clockwise until you feel it begin to insert. Continue twisting until the air hose connector is seated securely into the device. The image below indicates a fully secured hose with the hose arrow below the parting line of the device.
4. Connect your mask to the opposite end of the air hose.
5. To remove the hose simply turn it counterclockwise and pull gently away from the device.



## Power supply: AC adapter

Follow these steps for the appropriate power supply model included with the Transcend Micro 510 system.

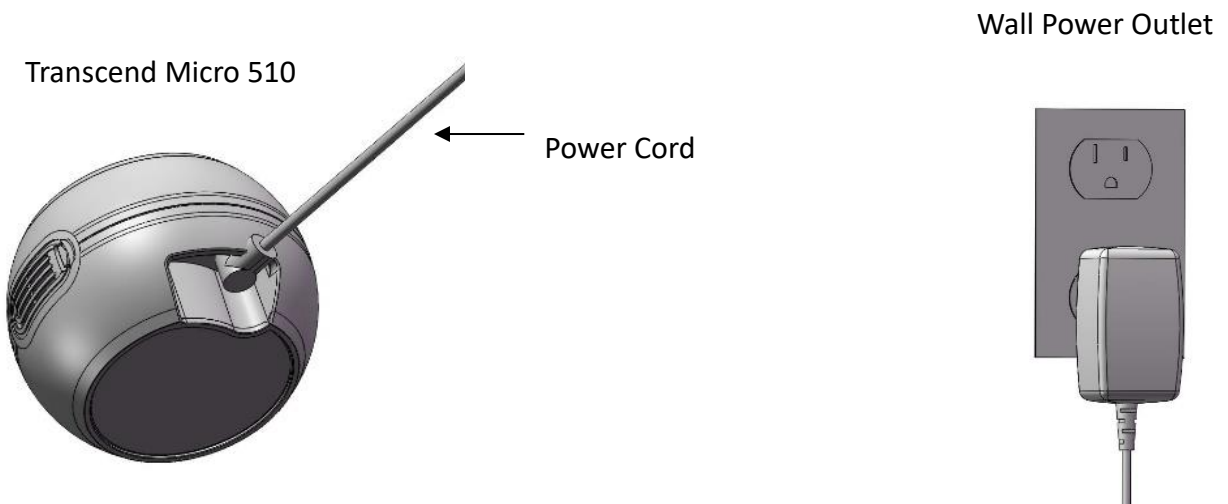


When connected to power, each LED on the CPAP device will flash. When the flash sequence is completed, the green Power LED and Bluetooth LED will remain on.

### For PSA5 Power Supply:

1. Connect the power cord from the AC adapter into the power input on the bottom of the CPAP device.
2. Connect one end of the wall power cord into the AC adaptor and the other end into the wall power outlet.

### For PSA4 Power Supply:



1. Connect the power cord from AC adapter into the power input on the bottom of the CPAP device.
2. Connect the AC adapter to the wall power outlet.

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## Power supply: Micro PowerAway Battery

To use a Transcend PowerAway battery as the primary power supply:

1. Fully charge the battery before first use by connecting it to the AC adapter and a power outlet. The battery will begin to charge automatically.  
NOTE: Do not connect the battery to the Transcend Micro 510 during the initial charge.
2. Once the battery is fully charged, it is ready for use with the Transcend Micro 510. It may take up to four (4) hours to charge the battery.
3. Connect the power cord from the battery into the power input on the bottom of the CPAP device.

To use the Transcend Micro PowerAway battery as a backup power supply to provide uninterrupted therapy in the case of a power outage:

1. Connect the power cord from the battery into the power inlet on the bottom of the CPAP device.
2. Connect the power cord of the AC adapter into the Transcend Micro PowerAway battery.
3. Connect the AC adapter to the wall power outlet.
4. When the Micro PowerAway battery is connected to power, the power LED on the battery will turn on (amber) and the charge gauge LEDs will start blinking showing the charge level. When completed, the charge gauge LEDs will turn solid green.

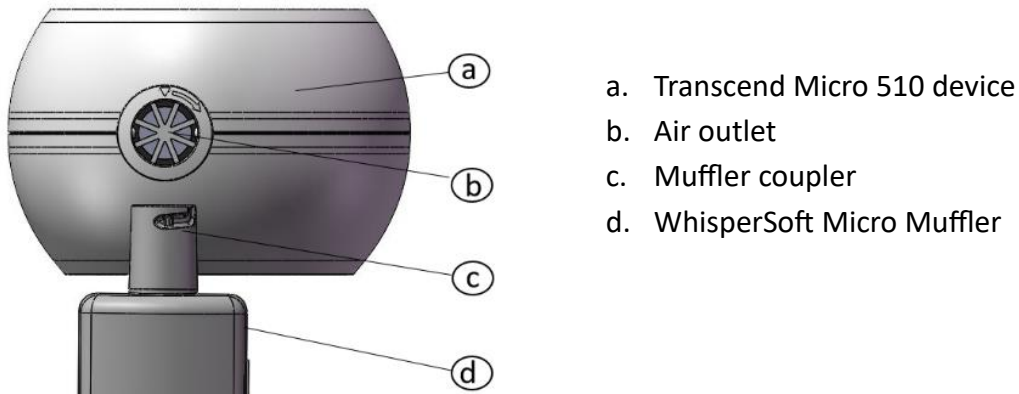
See the Transcend PowerAway Battery User Guide on [mytranscend.com](http://mytranscend.com) for further information on setup, use and caring for Transcend batteries.

[www.mytranscend.com/customer-care/user-guides/](http://www.mytranscend.com/customer-care/user-guides/)

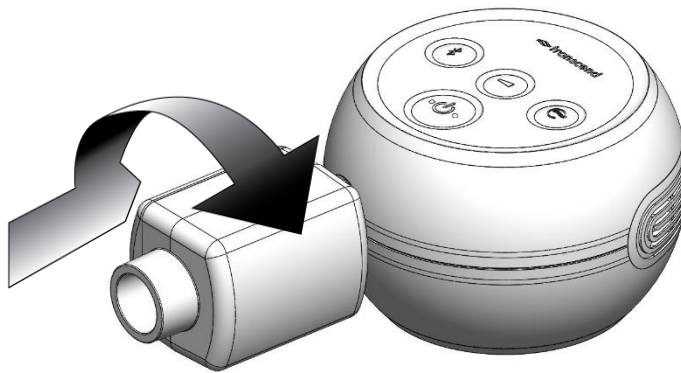
## Connecting Comfort Features

### WhisperSoft™ Micro Muffler connection

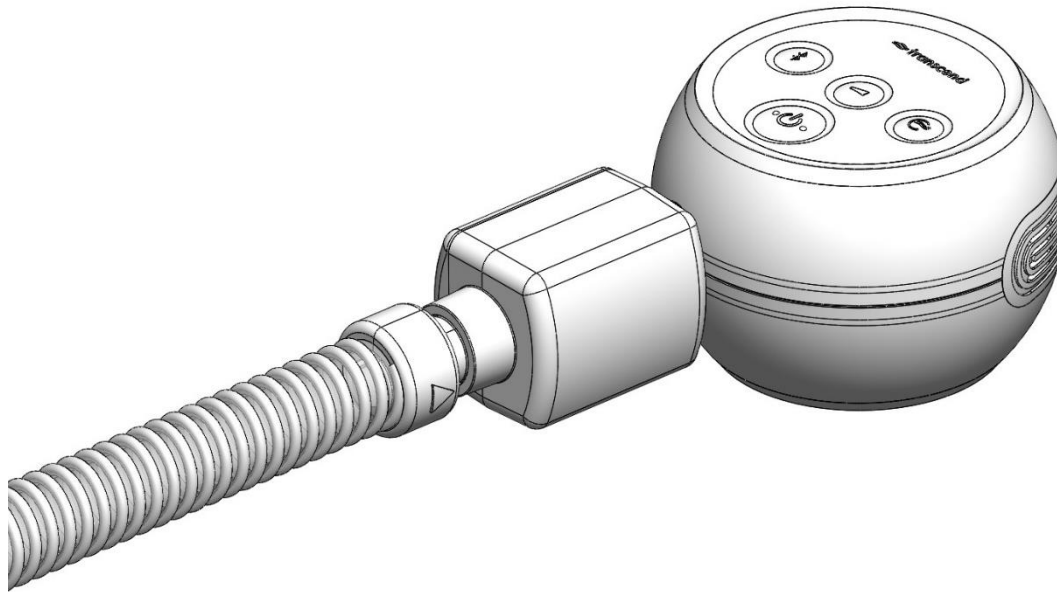
Note: The muffler is an optional accessory designed to minimize sound during therapy sessions. To connect the muffler, follow the steps outlined below.



1. Locate the coupler end of the muffler with the curved cut-out face. Gently insert the muffler into the device, ensuring the curved cut-out is facing outward. Twist the muffler clockwise until it is securely seated into the device. The flat face of the muffler is now aligned with the top of the device (see image).

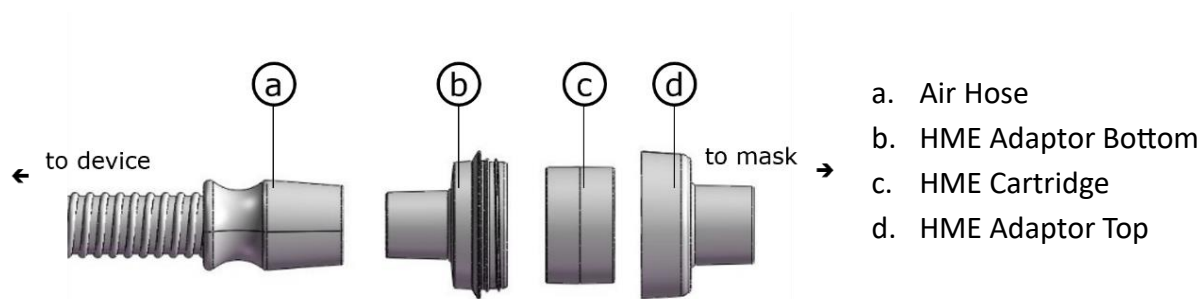


2. To connect the hose to the muffler, align the arrow of the hose with the curved face of the muffler. Insert the hose and twist the air hose coupler clockwise until the connector is seated securely in the muffler (see below).
3. Connect your mask to the opposite end of the hose.
4. To disconnect the hose and muffler, turn them counterclockwise and pull gently away from the device.



### AirMist HME adapter assembly

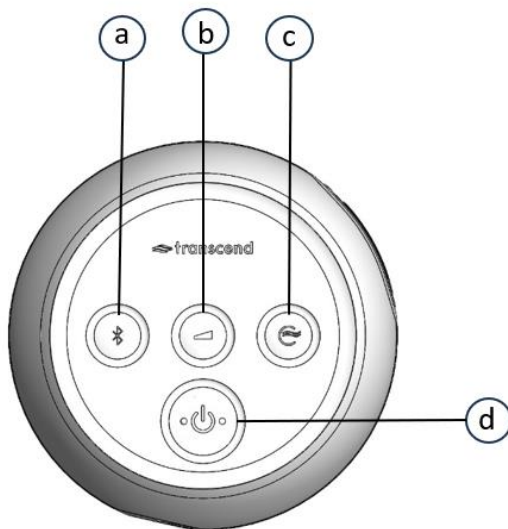
NOTE: The Transcend AirMist HME assembly is an optional accessory designed to provide waterless humidification. To connect the HME, follow the steps outlined below.



1. Remove the HME cartridge from foil package. Handle by the plastic casing, not the foam core.
2. Unscrew the HME adapter bottom from the HME adapter top and place the HME cartridge inside the HME adapter bottom.
3. Place the HME adapter top onto the HME adapter bottom and gently turn the top until the adapter compresses together on the HME cartridge.
4. Securely attach the HME adapter bottom to your hose.
5. Securely attach the HME adapter top to your mask.

## Navigating the Device Buttons

### Control Panel



- a. Bluetooth
- b. Pressure ramp
- c. Dry cycle
- d. Power

### Standby Mode

When the device is plugged in, it will be in Standby Mode.

- The LED glows green, indicating that the device has power.
- Pressing the power button transitions the device to Therapy Mode.
  - All LEDs will turn off.
  - The blower will start and the device will begin regulating pressure.

### Therapy Mode

When the device is powered and in Therapy Mode:

- The LED is off.
- Pressing the power button transitions the device to Standby Mode.
  - The LED glows green.
  - The blower stops.

### Bluetooth button and LED indicators

#### Standby Mode

Pressing the Bluetooth button toggles communication between enabled/disabled.

#### Therapy Mode

Pressing the Bluetooth button has no effect while in Therapy Mode.

Bluetooth Indicator LED Color	Description
Blue	Bluetooth communication is enabled but there is not an active connection with a mobile device.
Green	Bluetooth communication is enabled and there is an active connection with a mobile device.
White	Bluetooth communication is disabled.
Off	Therapy Mode is active.

## Ramp button and LED indicators

### Standby Mode

- The LED glows blue if the Ramp is configured and auto-ramp is enabled.
  - NOTE: If therapy is started when the ramp LED is on, the device will begin at a lower, ramp pressure. The device will arrive with Ramp enabled.
- The LED is off if Ramp is not configured, or Auto Ramp is disabled.
  - NOTE: If therapy is started when the ramp LED is off, the device will begin at the starting therapy pressure.
- Pressing the button when Ramp is not configured has no effect.
  - NOTE: See [Transcend desktop software user guide](#) to configure
- Pressing the button when Ramp is configured toggles Auto Ramp between enabled and disabled.

### Therapy Mode

- The LED is off.
- If Ramp is active, pressing and holding the button accelerates Ramp increase.
- If Ramp is configured but not active, pressing the button starts Ramp.
- If Ramp is not configured, pressing the button has no effect.

## Dry cycle button and LED indicators

### Standby Mode

- The LED is off when Drying Mode is off.
- The LED glows blue when Dry Cycle is on.
- Pressing the Dry Cycle button toggles between on and off.

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## Therapy Mode

- The LED is off.
- Pressing the button has no effect.

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## Using MySleepDash® app

Transcend MySleepDash is a smart device app that will guide you through the setup process of your new Transcend Micro 510 device. It includes setup videos, helpful information, and can track your sleep health progress. The app is not required to operate the Transcend Micro 510 device.

Before connecting the Transcend Micro 510 to a smart device, ensure that the latest version of the MySleepDash app is installed on the smart device. The app is available for download from the App Store or Google Play.

### Setting up the app on your smart device

1. Ensure your Transcend Micro 510 device is set up correctly and plugged into a power source.
2. On your smart device, enable Bluetooth.
3. Open the MySleepDash app.
4. The first time you open the MySleepDash app, you will be asked to login or create an account using your email. You will be required to:
  - a. Provide consent for the use of analytics.
  - b. Accept Transcend's terms of use and privacy notice.
  - c. Provide consent for the MySleepDash app to upload data to the cloud.
  - d. Additional information about terms and privacy policies are provided on the Create Account page.
5. Once selections are complete on the Create Account page, tap submit. After creating your account, you will be required to login using the email and password you just set up.
6. The next step will be to connect your Transcend Micro 510 device to the MySleepDash app.

### Connecting your Transcend Micro 510 to the app

1. Ensure Bluetooth is enabled on the Transcend Micro 510 device. The Bluetooth LED will glow blue to indicate that Bluetooth is enabled.
  - a. If the Bluetooth LED is glowing white, press the Bluetooth button to enable Bluetooth.
  - b. If the Bluetooth LED is off, verify that the device is powered and in standby mode.
2. Tap Continue on the MySleepDash app welcome page.
3. Tap the QR code icon to open your camera. You may be required to allow the device to use the camera features.
4. Locate the QR code on the bottom of the Transcend Micro 510 device and scan using the camera on your smart device.
5. Click add to complete adding your device.
6. The blue LED light on the Transcend Micro 510 will turn green.



7. Your device is now connected; follow the on-screen prompts on your smart device to continue setup.

## Starting Therapy

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1. Connect the Transcend Micro 510 to a power source and allow it to enter Standby Mode.
2. Be sure your mask fits firmly and in place before starting therapy.
3. Press the Power button or breathe normally to engage SleepStart. Therapy will begin when the blower delivers or ramps to the prescribed therapy pressure.

NOTE: Some masks are configured differently. Due to this variability, SleepStart may not function.

NOTE: If therapy is interrupted by a power failure, the device will automatically restart therapy once power is restored.

## Using the GentleRise Ramp Function

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The Ramp feature lets you acclimate to the air flow by starting at a lower pressure and gradually increasing to the prescribed pressure setting as you fall asleep.

To accelerate the rate of the pressure increase during Ramp mode:

1. Hold the Ramp button down until the device reaches a comfortable therapy pressure.
2. When the Ramp button is released, the device will continue in Ramp Mode until it reaches the prescribed therapy pressure.
3. To end Ramp early, hold down the Ramp button until the prescribed therapy pressure is reached.
4. If Ramp is no longer desired, disable it via software. Or disable auto-ramp by pressing the Ramp button when in standby.

NOTE: Once installed and connected, you may use the MySleepDash app to change ramp settings on the CPAP device. Alternatively, to adjust ramp starting settings, see the [Transcend Micro software manual](#) available on [mytranscend.com](http://mytranscend.com).

## Using the AirRelief (EZEX) Function

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The AirRelief (EZEX) function is a feature that decreases therapy pressure on exhalation. This is designed to provide additional comfort to the user by reducing the amount of resistance they experience as they exhale.

There are four settings: OFF, 1, 2 or 3. Each setting progressively increases the amount of pressure relief from none to maximum.

Once installed and connected, you may use the MySleepDash app to change Air Relief settings on compatible Micro devices. Alternatively, to adjust AirRelief settings, see the [Transcend Micro software manual](#) available on [mytranscend.com](http://mytranscend.com).

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## Ending Therapy

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Remove your mask and press the power button to end therapy.

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## Drying Mode

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At the end of each therapy session, it is recommended that the user initiate the Drying Mode function to dry the attached air hose and accessories.

To initiate Drying Mode:

1. Press the Drying Mode button.
2. When in Drying Mode, the blower will run at a low speed for 30 minutes.
3. During Drying Mode, the Drying Mode LED will continue to glow.
4. After 30 minutes, the blower will turn off and the device will enter Standby Mode.

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## Caring for your Device

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**WARNING:** Unplug the Transcend Micro 510 device before cleaning and make sure it is dry before plugging it in again. Do not perform any cleaning or maintenance tasks while the device is in operation. Damage caused by improper care of your device may not be covered by Transcend's limited warranty.

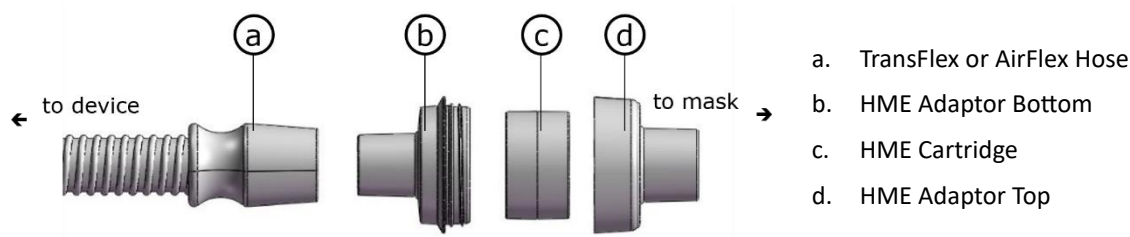
- Do not submerge the Transcend Micro 510 device, power supply, or power cord in water.
- Prevent water from entering any openings of the device.
- Do not use harsh or abrasive cleaning agents to clean the device or any components.
- Do not attempt to sterilize the Transcend Micro 510 device.
- Do not place cleaning materials, such as a cloth or liquid, into the device air inlet or air outlet connector.
- Do not open or modify the device. There are no user-serviceable parts inside the device. Servicing and repairs should only be performed by an authorized Transcend person.
- Do not use chlorine, bleach, or scented cleaning solutions, antibacterial or moisturizing soaps or oils, including scented oils, to clean the device or its components. These solutions may damage the device or reduce its life.
- Exposure to smoke, including cigarette, cigar or pipe smoke may damage the device.
- Exposure to ozone or other gases may damage the device.

## Disconnecting Comfort Features

### WhisperSoft Muffler / Micro Muffler assembly

1. To disconnect the hose and muffler, turn them counterclockwise and pull them gently away from the device.
2. After following the cleaning process, refer to the steps in the “Setting up your Transcend Micro 510” section to reassemble the muffler.

### AirMist HME adapter assembly



1. Remove the HME assembly from your mask
2. Remove the HME assembly from your hose
3. Unscrew the HME adapter bottom from the HME adapter top.
4. Discard the HME cartridge. The HME cartridge plastic and foam are not to be cleaned and should only be replaced.
5. After following cleaning process, refer to steps in the Connecting Comfort Feature section to reassemble the HME adapter.

## Cleaning the Exterior

Follow these instructions to clean the exterior of the Transcend Micro device.

1. Mix a solution of 5% mild liquid detergent in distilled water (1.6 fl. Oz. liquid detergent per quart of distilled water). Mild detergent should contain biodegradable anionic surfactants and no phosphate.
2. Submerge a lint-free cotton cloth into the detergent solution.
3. Wring excess water from the cloth then wipe the exterior surface of the Transcend Micro 510 device for approximately 20 seconds using a gentle back and forth wiping motion. Ensure contact with all accessible surfaces to adequately remove any soil buildup.
4. Rinse the cloth in clear water to remove residual cleaning solution.
5. Wring excess water from the cloth and wipe the Transcend Micro 510 using a gentle front to back wiping motion to remove any detergent solution remaining on the surface.
6. Wipe the device with a dry, lint-free cotton cloth until the device is fully dry.

## Cleaning of Accessories

The following accessories should be cleaned with a 5% solution of mild dishwashing liquid detergent in distilled water (1.6 fl. oz. liquid cleaning detergent per quart of distilled water). Mild detergent should contain biodegradable anionic surfactants and no phosphate.

Clean the device and its components as shown in the schedules below in order to maintain the quality of your device and to help prevent the growth of germs that can adversely impact your health.

Accessory	Cleaning Cycle	Product Service Life
Hose	Weekly	3 Months
WhisperSoft Muffler	Weekly	3 Months
AirMist HME Adaptor	Weekly	3 Months

Follow these steps to clean the accessories.

1. Fully immerse the accessory in the cleaning solution. DO NOT immerse the Transcend Micro 510 device.
2. NOTE: HME Cartridge must be removed prior to cleaning the HME Adapter. The HME cartridge cannot be cleaned; discard after 3-7 days of use.
3. While immersed, thoroughly wipe the surface with a lint-free cotton cloth. Apply firm pressure and ensure contact with all accessible connection surfaces to adequately remove soil buildup.
4. Clean the inside of the accessory by lifting then lowering the ends of the accessory, while the accessory is filled with cleaning solution.
5. Rinse accessory by immersing in distilled water. Move the accessory in a back-and-forth motion for approximately 10 seconds to remove cleaning agent residue.
6. Dry the outside of the accessory with a dry, lint-free cotton cloth. Allow the accessory to air dry until the inside is dry. Length of drying time will depend on ambient conditions.

## Transcend Batteries

- DO NOT immerse batteries in water or cleaning solution.
- For long term storage, which is any duration of time greater than three months, the battery should be:
  - Optimally stored at 60°F to 80°F (15°C to 27°C).
  - Stored in a dry location with a charge of approximately 30%. Allow 2 hours to charge a P8 battery / 1 hour to charge the Micro battery when fully depleted to achieve 30% charge.

See the [Transcend PowerAway User Guide](https://www.transcend.com/mytranscend.com) on mytranscend.com for further information on setup, use and caring for Transcend batteries.

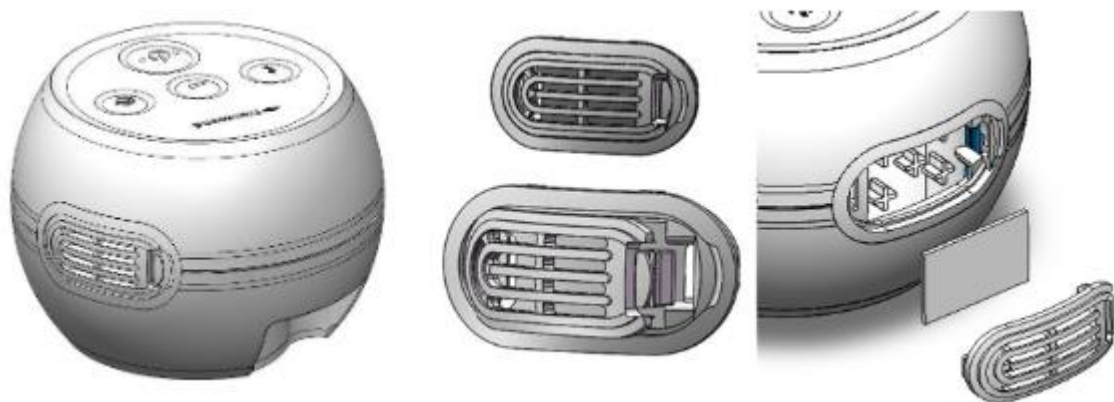
## Replacing the Transcend Micro 510 Air Filters

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The Transcend Micro 510 can use either a Standard air filter or a Premium hypoallergenic air filter. A Standard air filter is supplied with the machine. The Standard air filter screens out normal household dust and pollen, while the Premium air filter provides more complete filtration of very fine particles.

The Standard air filter should be replaced as often as every two weeks depending upon condition. If the environment is particularly humid or dusty, then the Standard air filter won't last as long. Visual inspection is key to determining filter life.

The Premium air filter should be inspected at least once per week. If the filter appears discolored, dirty or visibly damaged, or if air flow is restricted, replace it immediately. The Premium air filter should be replaced every two weeks even if it appears clean. More frequent replacement may be required in environments with high levels of humidity, dust, smoke, pollen or other airborne particles.



1. Depress the tab on the right side of the filter cover to remove it from the device.
2. Remove the filter and discard. Replace with a new standard or premium filter.
3. Reattach the filter cover by inserting the left side into the device and then clicking the right-side in.

## Environmental Information

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This device should be disposed of separately, not as unsorted municipal waste. To dispose of your device, you should use appropriate collection and recycling systems available in your region. If information on these disposal systems is needed, please contact your local waste administration. If you require information on the collection or disposal of your device, please contact Transcend or your homecare provider.

### California Perchlorate Information:

The coin-cell battery within this device may contain Perchlorate Material – special handling may apply.

See: [www.dtsc.ca.gov/hazardouswaste/perchlorate](http://www.dtsc.ca.gov/hazardouswaste/perchlorate)

## Traveling with Your Transcend Micro

When traveling with the Transcend Micro 510 device, make sure to have the appropriate power supply for the countries you are traveling to. Transcend plug adapters may be used in certain countries. For information on purchasing plug adaptors, contact your care provider.

### Traveling by airplane

For some airlines, medical devices do not count towards carry-on luggage limits. Please check with your airline about their policy regarding medical equipment.

You can use your Transcend Micro 510 device on a plane as it meets the Federal Aviation Administration (FAA) requirements. [Air travel compliance letters](#) can be downloaded and printed from mytranscend.com.

When using the machine on an airplane:

- When connected to power, disable Bluetooth (enter airplane mode) by pressing the Bluetooth button until the indicator light is white.
- Do not use the MySleepDash app.
- Use the Start/Stop button on your machine to start therapy.
- To reconnect Bluetooth after exiting the plane, press the Bluetooth button and follow steps to connect to the app.

## Troubleshooting

Problem	Possible Cause	Solution
Discomfort due to a feeling of high pressure.	Device pressure may be set too high.	Breathe slowly through your nose with your mouth closed.  Use the ramp pressure, if available.  If the pressure remains problematic, contact your homecare provider.
Discomfort due to a feeling of low pressure in mask	Device set too low	Contact home care provider for setting change.
	Excessive leaks around hose or mask	Check hose, mask and any accessories in the breathing circuit for air leaks and proper fit.

Problem	Possible Cause	Solution
Dry nose or throat irritation.	Dry air	Add humidity to the room.  Replace HME if being utilized. Ensure proper placement of HME.  Contact your homecare provider.
	Dirty air path accessory	Follow cleaning instructions for accessories.
	Dirty air filter	Change the air filter.
Device control panel LEDs don't flash or illuminate when the power supply is connected to the device.	Power source is not properly connected.	Check all power connections and verify if the LED light on the power supply is illuminated.
	AC power may not be active.	Use another power outlet.  Confirm outlet is not controlled by a wall switch.
No airflow from the device.	Device motor failure; OR electronics failure	Contact the homecare provider's technical service department.
All LEDs flash two times then pause, then flash again	Device detects an operating error	Hold down the power button until all LEDs stops flashing.  Release the power button, the device will reset and power up in Standby Mode.  Check hose, mask and any accessories in the breathing circuit for air leaks and proper fit.  If problems persist, contact your homecare provider

Problem	Possible Cause	Solution
Device shuts down during therapy	Improper seal of external hardware (mask, tubing); or use of external hardware past recommended service life.	Verify all external equipment in breathing circuit is seated correctly to ensure a proper seal.  Check hose for leaks.  Follow mask manufacturer recommendations for fit and seal.
	Breathing circuit not assembled correctly	Replace any external hardware exceeding recommended service life.  If the problem persists, contact your homecare provider.
All LEDs flash four times then pause, then flash again	Device detects an operating error.	Hold down the power button until all LEDs stops flashing. Release the power button, the device will reset and power up in Standby Mode. If the LEDs begin to flash again, contact your homecare provider.
Droplets of water in my mask after therapy	Excess condensation from breathing	Run drying mode after therapy.  Utilize in a less humid environment (dehumidifier).
Bluetooth will not connect	Bluetooth disable (White LED light)	Push Bluetooth button to enable (Blue LED light).
	App not downloaded or issue with the app/phone function	Verify app is downloaded and installed, the phone supports Bluetooth Low Energy and has Bluetooth enabled.
Bluetooth will not connect	Bonded pairing information stale	Follow instructions on the phone to forget the Bluetooth connection. On the device, hold down the BT button until the BT LED flashes from blue to yellow once (about 5 seconds).



Problem	Possible Cause	Solution
SleepStart is not functioning	Breathing circuit has excessive leaks	Check hose, mask and any accessories in the breathing circuit for air leaks and proper fit.
	User not breathing deep enough to trigger SleepStart	Ensure deep breath is taken with mask securely fitted or press Power button to start therapy.  If the problem persists, call your homecare provider's technical service department.
Bluetooth LED is red (not flashing) all other LEDs are off. Device does not respond to button presses.	Device detects an error during boot-up.	Disconnect power, wait at least 15 seconds, re-connect power.  If the problem persists, call your homecare provider's technical service department.

## Precautions for Use

This section describes the warnings and cautions associated with use of the Transcend Micro 510. The following guidelines apply to this document:

**Warning** Indicates the possibility of serious injury or death to yourself or others.

**Caution!** Indicates the possibility of minor injury or damage to the equipment.

**NOTE:** Indicates a tip, explanation, or feature to aid in understanding, or efficient operation of the device.





## Warnings












- Do not allow water to enter this device. Transcend Micro 510 should not be exposed to environmental conditions where the system may get wet.
- This device is not intended for life support.
- The Transcend Micro 510 must be set up and adjusted by a trained provider before being used for therapy ramp and pressure.
- The air temperature produced by this device can be as much as 10°F higher than the temperature of the room. Exercise caution if the room temperature is warmer than 90°F (32°C).

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- Do not block or otherwise obstruct the exhalation ports of the mask. Follow the manufacturer's instructions included with your mask.
  - This equipment is not suitable for use with oxygen or in the presence of a flammable anesthetic mixture with air or oxygen, or with nitrous oxide. Sources of oxygen must be located more than 1 meter from the equipment to avoid the risk of fire and burns.
  - The Transcend Micro 510 is only to be used with the supplied or recommended accessories. Use of accessories not recommended may result in increased electromagnetic emissions or decreased electromagnetic immunity of the PAP system and may be potentially unsafe.
  - The Transcend Micro 510 is not defibrillation proof.
  - Do not attempt to sterilize Transcend Micro 510.
  - The device should be used only with masks and connectors recommended by Transcend or a health care professional. A mask should not be used unless the device is turned on and is properly delivering ramp or therapy pressure. The exhalation port(s) associated with the mask should never be blocked. Explanation of the Warning: The device is intended to be used with masks or connectors specifically designed to have exhalation ports to allow continuous flow of air out of the mask. When the device is in operation, air flow from the device flushes exhaled air out through the mask exhalation port. When the device is not operating, however, fresh air will not be provided through the mask and exhaled air may be rebreathed.
  - Failure to use a mask or accessory that minimizes rebreathing of carbon dioxide or permits spontaneous breathing can cause asphyxiation. Only use masks which comply with ISO 17510.
  - Do not position the equipment in bed. Covering breathing tubes with a blanket or heating them can affect the quality of therapy or injure the user.
  - To prevent disconnection of the tubing during use only Transcend supplied hoses or hoses in compliance with ISO 5367 or ISO 80601-2-74 should be used.
  - Strangulation hazard from power cord and air tube. These can become wrapped around the neck and STRANGLE. Keep power cord and air tube more than 3 feet from a baby's crib and out of baby's reach. Keep the cord and tube out of children's reach.
  - Small parts are unlikely to be expelled from the Transcend Micro 510 enclosure, but in case of severe damage internal components may fragment and create a swallowing or choking hazard if they get out of the enclosure.
  - Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.
  - Use of accessories, transducers, and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation.
  - Portable RF (radio frequency) communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the Micro device.

## Cautions

- Federal law in the US restricts this device to the sale by, or on the order of, a physician.
- Power the Transcend Micro 510 only with the Transcend-supplied power supplies or batteries. Use of an unapproved power supply may prevent the device from functioning properly or result in a loss of therapy.
- Discontinue use of the Transcend Micro 510 and contact your physician if respiratory or skin irritations occur.
- Do not introduce objects into the Transcend Micro 510 air inlet or air outlet.
- Inspect the power supply for signs of wear or damage before each use. Replace the power cord if necessary.
- Transcend recommends replacing the hose after every three months of use.
- To protect the environment, some parts and accessories of the Transcend Micro 510, including optional batteries, must be disposed of in accordance with local regulations.
- The user should not touch the USB-C data port or the power supply connectors at the same time while the device is providing therapy.
- The equipment must not be covered or positioned in such a way that adversely affects the performance of the equipment, as it may also create a safety issue. Examples of this would include:
  - The equipment must not be positioned in a bed.
  - The equipment should not be placed anywhere other than on a firm, flat surface.
  - Do not position in a location where pets or children can access equipment.
  - Do not position near an open window or other location where dust, or pests (insects) can affect equipment safety and/or performance.
  - Do not position next to a curtain that blocks the flow of cooling air, thereby causing the equipment to overheat.
  - Do not block the air intake port, thereby interfering with therapy.

Symbols	Description
	Ramp functionality
	Drying Mode
	Power
	Caution
IP22	Protected against finger-sized objects and against dripping De when tilted 15 degrees from specified orientation

	Type BF Applied Part
	Upper and lower temperature limits
	Consult instructions for use
<b>Rx Only</b>	Prescription only. U.S. federal law restricts this device to sale by or on the order of a physician or properly licensed practitioner.
<b>REF</b>	Precedes reference or item number
<b>LOT</b>	Batch code
	Date of Manufacture
	Manufacturer
<b>SN</b>	Serial Number
	Bluetooth
	Wireless. FCC part 15 compliant. RTCA/DO-160 Section 21 Category M compliant & FAA compliant.
	Shipping and storage temperature limitation.
	Shipping and storage relative humidity limitation.
	TUV Seal of Approval demonstrating quality, safety and professional manufacturing of medical product.
	Single patient, multiple use

## Technical Specifications

<b>Transcend Micro 510 weight:</b>	0.49 lbs (223.4g)
<b>Transcend Micro 510 dimensions:</b>	3.6" x 3.6" x 2.4" (9.1 cm x 9.1 cm x 6.1 cm)
<b>Air outlet connector port dimensions:</b>	Custom interface to device, standard 22-mm diameter connection to user interface
<b>Design life</b>	5 years

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## AC Power Supply PSA 5 (laptop style)

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<b>AC supply input:</b>	100-240 VAC, 50-60Hz, 1.0A Max
<b>AC supply output:</b>	19 VDC 2.1 Amp

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## AC Power Supply PSA 4 (wall mount style)

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<b>AC supply input:</b>	100-240 VAC, 50-60Hz, 1.0A Max
<b>AC supply output:</b>	19 VDC 2.1 Amp

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## Battery (optional)

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<b>Transcend Micro PowerAway Battery (BATM)</b>	14.8 VDC, 4,800mAh
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## Transcend Micro 510 Performance

<b>Ventilator Mode:</b>	CPAP  NOTE: Ramp and AirRelief (EZEX) are comfort features that adjust pressure delivery for patient comfort. These features do not represent separate ventilation modes
<b>Working pressure range:</b>	4 to 20 cm H <sub>2</sub> O
<b>Dynamic pressure accuracy for micro muffler, 6' flexible hose and HME:</b>	<b>Above Set Pressure:</b> + 1.0 cmH <sub>2</sub> O or + 10% of set pressure (Whichever is greater)  <b>Below Set Pressure:</b> - 2.0 cmH <sub>2</sub> O or - 20% of set pressure (Whichever is greater)
<b>Maximum system shutdown pressure:</b>	30 cm H <sub>2</sub> O
<b>Ramp time duration:</b>	0-45 min + 25%-time variance
<b>Operating temperature range:</b>	41 to 95°F (5 to 35°C)
<b>Storage/transport temperature range:</b>	-4 to 140°F (-20 to 60°C)
<b>Operating humidity range:</b>	10% to 80% relative humidity, non-condensing
<b>Storage/transport humidity range:</b>	10% to 90% relative humidity, non-condensing
<b>Altitude range:</b>	0-8000 feet (Automatically adjusted)

NOTE: Allow one hour for the device to either warm or cool when coming from storage temperature to operating temperature prior to use.

## Software Functionality and Device Data

The Transcend Micro 510 is a smart device and includes functionalities which allows it to be connected to the MySleepDash app and Transcend Desktop Software so users and their care providers can access therapy data.

### Software license

License Grant. Subject to the terms and conditions below, Transcend grants you, the owner and/or user of this device, a perpetual, non-exclusive, non-sublicensable, personal, limited license to use the Trans-

cend Software solely in connection with the use of this device. All other rights are reserved by Transcend. You will be deemed to have transferred and assigned this license to any person that acquires the owner's or the user's rights in this device.

**License Restrictions.** Software included on or with this device is owned by or licensed to Transcend (the "Transcend Software"). Neither the Transcend Software nor any intellectual property rights in the Transcend Software are sold or assigned by Transcend. No person or entity is licensed or authorized to (a) reproduce, distribute, create derivative works, modify, display, perform, decompile, or attempt to discover the source code for the Transcend Software, (b) remove or attempt to remove the Transcend Software from the Transcend product, or (c) reverse engineer or disassemble the Transcend product or the Transcend Software. For avoidance of doubt, the foregoing restrictions are not intended to limit any licensee's rights to software code incorporated into or distributed with the Transcend Software and licensed under the terms of any open source, free or community software license (collectively, "Open-Source Software").

## Use of device data

When you use this device, it gathers and records data about your use and, if your device connectivity is enabled, the device sends certain data to Transcend via the cloud to enable Transcend to deliver various benefits to you and your care provider(s). Additionally, some of that data may be used by Transcend (1) to comply with its legal obligations; these legal obligations include collection and analysis of device data for medical device post market surveillance and vigilance, and compliance with these legal obligations includes assessing if Transcend is required to implement actions to improve device safety, usability and performance, and (2) to perform health-related research, study and/or evaluation for specific scientific and medico-economic purposes. Transcend will only use your device data in compliance with applicable laws and regulations in your country or region (for example the GDPR (Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data), the MDR (a (EU) 2017/745 of the European Parliament and of the Council of 5 April 2017 on Medical Devices)) in the European Union, and, as applicable, HIPAA (the Health Insurance Portability and Accountability Act of 1996) in the USA). Depending on the data protection or privacy laws of your country or region your device data may constitute your personal data. If so, Transcend has the obligation to inform you about your rights and freedoms regarding our use of your personal data. You can find more details related to our use of your data, your rights to access, rectify, erase, restrict or object at <https://mytranscend.com/privacy-policy>.

## Electromagnetic Compatibility

Transcend Micro 510 complies with all applicable electromagnetic compatibility requirements (EMC) according to IEC60601-1-2:2014 for residential, commercial, and light industry environments. Portable and mobile RF communications equipment should be used no closer to any part of the device, including

cables, than the recommended distance of separation (30CM). The Transcend Micro 510 has been designed to meet EMC standards, however, should you suspect the device performance is being affected by other equipment, move the device away from the potential cause of the interference. The Transcend Micro 510 complies with Part 15 of the FCC rules and Industry Canada license-exempt RSS standards. Operation is subject to the following two conditions 1) this device may not cause harmful interference, and 2) this device must accept any interference received, including interference that may cause undesired operation.

## Electromagnetic Emissions

The Transcend Micro 510 is intended for use in the electromagnetic environment specified below. The customer or the user of the system should ensure that it is used in such an environment.

Emissions test	Compliance	Electromagnetic environment—guidance
RF radiated emissions CISPR 11	Group 1	The Transcend Micro 510 uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.  The Transcend Micro 510 is suitable for use in all establishments, including domestic establishments and those directly connected to the public low-voltage power supply network that supplies buildings used for domestic purposes.
RF conducted emissions CISPR 11	Class B	
Harmonic distortion IEC 61000-3-2	Class A	
Voltage fluctuations/flicker emissions IEC 61000-3-3	Complies	

## Electromagnetic Immunity

The Transcend Micro 510 is intended for use in the electromagnetic environment specified below. The customer or the user of the system should ensure that it is used in such an environment.	Basic EMC standard	Immunity test levels
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Electrostatic discharge (ESD)	IEC 61000-4-2	$\pm 2, 4, 8, 15\text{kV}$ air  $\pm 8\text{ kV}$ contact
Radiated RF EM fields	IEC 61000-4-3	$10\text{ V/m}$  80 MHz to 2.7 GHz  80% AM at 1 kHz
Electrical fast transient/burst	IEC 61000-4-4	$\pm 2\text{ kV}$  100 kHz repetition frequency
Surges Line-to-ground	IEC 61000-4-5	$\pm 1, 0, 5\text{ kV} \pm 1\text{ kV}$
Surges Line-to-ground	IEC 61000-4-5	$\pm 0, 5\text{ kV}, \pm 1\text{ kV}, \pm 2\text{ kV}$
Voltage dips,	IEC 61000-4-11	0,5 cycle  At 0, 45, 90, 135, 180, 225, 270 and 315 degrees  0% $U_t$ ; 1 cycle and 70% $U_t$ ; 25/30 cycles  Single phase: at 0
Voltage interruptions	IEC 61000-4-11	0% $U_t$ ; 250/300 cycle
Rated power frequency magnetic fields	IEC 61000-4-8	$30\text{ A/m}$  50 Hz or 60Hz

Conducted disturbances induced by RF fields	IEC 61000-4-6	3 V  15 MHz – 80 MHz  6V in ISM and amateur radio bands between 0,15 MHz and 80 MHz  80% AM at 1kHz
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Test specifications for enclosure port immunity to RF wireless communications equipment

Test frequency (MHz)	Band (MHz)	Service	Modulation	Maximum power	Distance	Immunity Test Level
385	380-390	TETRA 400	Pulse modulation 18Hz	1, 8	0,3	27
450	430-470	GMRS 460, FRS 460	FM +/-5kHz deviation 1 kHz sine	2	0,3	28
710	704-787	LTE Band 13, 17	Pulse modulation 217 Hz	0,2	0,3	9
745						
780						
810	800-960	GSM 800/900 TETRA 800, iDEN 820, CDMA 850, LTE Band 5	Pulse modulation 18 Hz	2	0,3	28
870						
930						
1720	1700-1990	GSM 1800; CDMA 1900; GSM 1900;DECT; LTE Band 1, 3, 4, 25 UMTS	Pulse modulation 217 Hz	2	0,3	28
1845						
1970						
2450	2400-2570	Bluetooth WLAN, 802.11 b/g/n RFID	Pulse modulation 217 Hz	2	0,3	28

Test frequency (MHz)	Band (MHz)	Service	Modulation	Maximum power	Distance	Immunity Test Level
		2450 LTE Band 7				
5240	5100-5800	WLAN 802.11 a/n	Pulse modulation	0,2	0,3	9
5500						
5785						

## IEC 60601-1 (Third Edition) Classification

Class II Type BF IP22. Protected against ingress of solid foreign objects greater than or equal to 12.5 mm in diameter. Vertically falling drops shall have no harmful effects. Equipment not suitable for use in the presence of a flammable anesthetic mixture with air or oxygen, or with nitrous oxide.

## Performance

### Pressure

Testing in accordance with ISO 80601-2-70:2020 for pressure accuracy and measurement uncertainty of manufacturer's test equipment

Pressure type	Accuracy	Measurement uncertainty
Static at 10 cm H <sub>2</sub> O	+/- 0.2 cm H <sub>2</sub> O	Static pressure accuracy has a measurement uncertainty of $\pm 0.06$ cmH <sub>2</sub> O.
Dynamic (with micro muffler, 6' flexible hose and HME)	<b>Above Set Pressure:</b> + 1.0 cmH <sub>2</sub> O or + 10% of set pressure (Whichever is greater) <b>Below Set Pressure:</b> - 2.0 cmH <sub>2</sub> O or - 20% of set pressure (Whichever is greater)	Dynamic pressure accuracy has a measurement uncertainty of $\pm 1.3$ cmH <sub>2</sub> O.

Maximum flow rate (typical)		Test Pressures				
		4 cm H <sub>2</sub> O	8 cm H <sub>2</sub> O	12 cm H <sub>2</sub> O	16 cm H <sub>2</sub> O	20 cm H <sub>2</sub> O
	Measured pressure at the patient connection port (cmH <sub>2</sub> O)	<b>2.1</b>	<b>6.0</b>	<b>10.0</b>	<b>14.0</b>	<b>18.0</b>
	Average flow at the patient connection port (l/min)	<b>57.4</b>	<b>58.5</b>	<b>58.5</b>	<b>58.9</b>	<b>59.0</b>

## Sound

### Standards-Based Acoustic Emissions

Sound values were determined according to ISO 80601-2-70:2020 and are reported according to ISO 4871:1996.

Parameter	Value
Sound pressure level (@ 10cm H <sub>2</sub> O pressure, static)	31 dBA with an uncertainty of $\pm 2$ dBA
Sound power level (@ 10cm H <sub>2</sub> O pressure, static)	39 dBA with an uncertainty of $\pm 2$ dBA

Sound levels measured per ISO 80601-2-70 are determined under standardized sound booth conditions without a mask connected and at fixed microphone positions in a circle around the device. These values are useful for regulatory compliance but do not represent the sound levels a user will experience during sleep. Actual user experience depends, among other things, on mask type, mask fit, leak rate, operating pressure and distance from the device. The supplementary typical use environment measurements below are intended to provide more representative information.

### Acoustic Performance Under Typical Use Environment

In addition to the standards-based acoustic emissions listed above, the device was evaluated using an internal acoustic test method derived from the general test principles described in ISO 80601-2-70, with modifications intended to better represent a home therapy use environment. These measurements are provided as supplemental performance information and are not part of ISO 80601-2-70 conformity assessment. Under a more typical use environment, the tested sound pressure level was:

Parameter	Value
Sound pressure level (@ 10cm H <sub>2</sub> O pressure, static)	27 dBA with an uncertainty of $\pm 2$ dBA

## Appendix

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### Accessories / Disposable Parts / Replacement Parts

For information on ordering accessories, disposable parts or replacement parts or latest accessories please use the QR code provided or go to [www.mytranscend.com](http://www.mytranscend.com).



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## Limited Warranty

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Transcend Inc. ("Transcend") provides this non-transferable, limited warranty for the Transcend product to the initial consumer who purchased the new product directly from Transcend or one of its authorized dealers.

Transcend warrants each new Transcend product will be free from defects in materials and workmanship and will perform in accordance with the product specifications under conditions of normal and proper use and maintenance in accordance with applicable instructions subject to the exclusions below.

The warranty period for the transcend Micro 510 is three (3) years from the date of original retail purchase by the initial consumer. The warranty period for accessories, replacement parts and disposables including, but not limited to, hoses, mufflers, HMEs, carrying cases, and filters is 90 days, and for batteries is one (1) year from the date of purchase by the initial consumer.

This warranty does not cover (a) any damage caused as a result of improper use, accident, misuse, abuse, water ingress, alteration or modification of the product, (b) repairs carried out by any organization or person that has not been expressly authorized by Transcend to perform such repairs, (c) any damage or contamination due to cigarette, pipe cigar or other smoke, (d) any damage caused by exposure to ozone, activated oxygen or other gases (e) failure to operate in accordance with the terms of the operating manual and instructions, (f) lack of reasonable care, (g) any damage or contamination due to insect infestation, or (h) other defects not related to material or workmanship. This warranty is not transferable. If Transcend finds that a product returned for service or the issue raised is not covered under this limited warranty, Transcend may charge an evaluation fee and return shipping.

If a product does not meet the warranty above, Transcend will repair or replace the product or any of its parts, or refund the original purchase price, at Transcend's sole discretion, subject to the exclusions below. Transcend may use new or remanufactured assemblies, components, and parts in repair and new or refurbished devices for replacement. The balance of the original warranty will apply to any product or component of a Product repaired or replaced under this warranty.

The warranty is void on any product sold, or resold, outside the country of original purchase.

EXCEPT AS SET FORTH IN THIS LIMITED WARRANTY, TRANSCEND MAKES NO WARRANTIES, EXPRESS OR IMPLIED, STATUTORY OR OTHERWISE REGARDING THE PRODUCT OR ITS QUALITY OR PERFORMANCE. TRANSCEND SPECIFICALLY DISCLAIMS THE IMPLIED WARRANTY OF MERCHANTABILITY AND THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT WILL TRANSCEND'S MAXIMUM LIABILITY UNDER THESE WARRANTIES EXCEED THE ORIGINAL PURCHASE PRICE OR WILL TRANSCEND BE LIABLE FOR ANY ECONOMIC LOSS, LOSS OF PROFITS, OVERHEAD OR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. Repair, replacement or return of purchase price by Transcend is the initial purchaser's sole and exclusive remedy under this warranty.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusions and limitations may not apply to you.

Warranty claims on a defective product must be made by the initial consumer at the point of purchase within 30 days after the discovery of the defect.

You may contact your authorized Transcend dealer or Transcend at 103 Osborne Road NE, Fridley, Minnesota 55432 USA, 1.877.621.9626 or 1.651.621.1800. See also [www.mytranscend.com/warranty](http://www.mytranscend.com/warranty) to submit a claim under this limited warranty.

## Notices

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<i>Notice</i>	The information contained in this document is subject to change without notice.
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