Remote Oxygen Flow Control

"Control your oxygen, don’t let your Oxygen control you.”

What the Remote Oxygen Flow Control does.
The Remote Oxygen Flow Control allows you to easily control your oxygen flow and minimize periods of low blood oxygen level by providing a flow meter and flow adjustment on a lanyard around your neck. With your concentrator/tank flow setting at your high/activity level of flow from your Doctor’s prescription you can adjust the flow (from your end of the hose) without having to walk back to your concentrator/tank to change the flow rate.
Why we made the Remote Oxygen Flow Control.

Most users of Oxygen Concentrators/tanks keep their concentrator in a central location and use the long hose to move from one area of their home to another. Heat and noise generated by oxygen concentrators also force many people to keep their concentrator a substantial distance from their bed, chair, bathroom, kitchen and other locations. This distance often requires users to stand and walk to their concentrators before they can adjust their flow rate for resting or standing/walking. This distance can often lead to a drop in their blood oxygen levels below 90% before they start any activities. This drop in blood oxygen level may cause users to restrict their activities due to the way they feel from the low oxygen level from their walk to the concentrator/tank to adjust their flow UP from their resting level to their active level. Please see the graphs at the end of this document to see how blood oxygen levels change.

The Remote Oxygen Flow Control allows the user to adjust their oxygen flow level from their end of the hose BEFORE they get up for their activities.

Important! To get the most out of your Remote Oxygen Flow Control you will need to monitor your blood oxygen levels with a pulse oximeter at different levels of activity. (see charts at end of this document)

Quick Checks:

1. Make sure hoses are on tightly.
2. Do not turn off the Oxygen completely with the Remote Control. Hoses could blow off.
3. Check to see if your humidifier or other devices cause a change in readings between the Remote and the Concentrator/Bottle.
4. Use on continuous flow, not pulse.
Detailed Instructions for setting it up.

Connections, female and male hose connections.

The Remote Oxygen Flow Control is designed to connect to the female end of the hose from your oxygen tank or concentrator between your cannula and the end of the oxygen hose from your concentrator/tank. Note: make sure the hoses are securely connected to the Remote Oxygen Flow Control. **If your cannula or hose has male ends, you will need an adapter.**

**Make sure you connect all hoses firmly at all connections to avoid the hoses blowing off when you reduce the flow rate.**
Wear the lanyard with the Remote Oxygen Flow Control attached around your neck, or put it in your pocket. The lanyard has a clip at the Remote Oxygen Flow Control that will allow you to disconnect the lanyard from the Remote Oxygen Flow Control. You can also remove the lanyard entirely by removing the metal nut from the hose barb and sliding the lanyard string off of the hose barb.

Use the included Velcro tie wrap to coil any extra hose.

Note: For sleeping use uncoil the hose and use a cannula with a longer (6’+) hose and hang the Remote Oxygen Flow Control on a bedpost or dresser. Or, simply disconnect the Remote Oxygen Flow Control from the hose to the concentrator/tank and connect your cannula to the concentrator/tank. Be sure to adjust the flow control on the concentrator/tank to the lower, sleeping level.

**Caution:** If your cannula hose is not long enough to allow the Remote Oxygen Flow Control to be outside of the bed when sleeping, disconnect the Remote Oxygen Flow Control and connect your Cannula directly to your concentrator/tank and adjust the flow rate on your concentrator/tank accordingly.

Note. The basic Remote Oxygen Flow Control has a flow meter range of 0-10 L/PM. If you require a different range please contact us and we will do our best to provide an alternate range to you.
Oxygen Flow Adjustments.

Caution: Hold Remote Oxygen Flow control flowmeter vertical for correct readings. After you have set the flow level, your Remote Oxygen Flow Control does not have to be vertical.

1. Adjust the dial on your oxygen concentrator/tank to the highest level your doctor has prescribed for when you are walking/exercising.

   Note: If the dial is hard to turn, it will loosen up after a few times of turning the dial several turns. The dial is made to be hard to turn to keep from accidentally turning while in your pocket.

2. Adjust the dial on your Remote Oxygen Flow Control to adjust your oxygen flow between your LOW prescription oxygen level and your HIGH prescription oxygen level as required to achieve the blood oxygen level (using a finger pulse oximeter) suggested by your doctor. Then use the dial on the Remote Oxygen Flow control to adjust your oxygen flow rates between the Low (resting) and High (activity) limits of your prescription.

   Do not use the Remote to completely shut off the oxygen flow. You could cause a hose to blow off.

   You should see the flow meter on your Concentrator/Bottle go up and down when you adjust the flow with your Remote Oxygen Flow Control.*

   Note: There may be some differences between the flow meter readings on your concentrator/tank and the readings on the Remote Oxygen Flow Meter do to variances in manufacturing. You should compare the two readings to discover any variations.

   Important: Check your Blood Oxygen level often when using the remote oxygen flow control to make sure your Blood oxygen level is within the range specified by your doctor.
Check all connections daily to insure that the hoses are securely connected and the hose barb attachments are tightly screwed into the flow meter. Do not over tighten the hose barbs into the flow meter. You may notice one of the hose barbs loosening when removing a hose from it. Tighten the hose barb to “finger tight”.

Pulse Oximeter may be purchased with the Remote Oxygen Flow Control or separately. (TBD)

*Important information about flow meter readings:
Due to variations in equipment you may see different readings on the Remote Oxygen Flow Control meter and the flow meter on your Concentrator/Bottle. Readings can be off considerably if you have a humidifier and/or leaky swivel connectors between the Remote and the Concentrator or bottle. The reading on the Remote Oxygen Flow Control will be the most accurate indicator of the oxygen flow you are receiving.

Caution! Use a pulse oximeter to verify your oxygen levels are within your doctor’s recommendations. This is important when you first start using your Remote to verify the flow is accurate and to understand your body’s need for oxygen at different activity levels.

Tips:
Tip! You can make it easier to see your “resting” and “activity” oxygen levels on your Remote Oxygen Flow control if you take a fine BLACK MAGIC MARKER and draw a line around the flow control where your Low and High flow settings are. See photo below.
How to use the Remote Oxygen Flow Control with your finger pulse oximeter.

Use the included blank chart to help determine your best oxygen flow settings.

The goal is to keep your blood oxygen levels above 90% (or level recommended by your Doctor) when you transition from resting to exercising/standing/walking and below levels that too high as recommended by your doctor. Most people find that they can avoid any large drop in their blood oxygen levels by turning UP the oxygen flow about 15 seconds BEFORE the change from RESTING to EXERCISING/STANDING/WALKING.

From a resting status, turn your oxygen flow UP about 15 seconds BEFORE standing/walking/exercise. How much you will need to turn the flow rate up can be discovered by watching your blood oxygen level on a pulse oximeter. You can also use the included graphs to map out your flow needs.

When you are finished standing/walking/exercising and return to a resting status WAIT a few seconds before turning the oxygen flow back to your normal resting flow rate. When to turn the flow rate DOWN can be discovered by watching your blood oxygen level on a pulse oximeter. You can also use the included graphs to map out your flow needs.

Warning. Consult with your Doctor before changing your activity levels or adjusting your oxygen flow rate above or below your Doctor’s prescription.

Notes:
Our main goal was to focus on maintaining a healthy blood oxygen level by anticipating increased oxygen needs. The prescribed “flow rates” by Doctors
leave a wide range of interpretation by the patients to prevent large drops in their blood oxygen levels. By focusing on blood Oxygen levels with the ability to adjust the oxygen flow at your end of the hose, blood oxygen levels can be more closely controlled.

Finger Pulse Oximeters are available on-line for less than $20.

How did it work for you?
Please let us know how our Remote Oxygen Flow Control has helped you and any suggestions you might give others about using it.

Please give us price feedback!

Give us Suggestions.
Please let us know at via email roach33990@gmail.com or send your ideas for making our products better to: TSI, 140 SE 8th St., Cape Coral, FL 33990
Sample charts

The chart below is a sample of a COPD patient’s blood oxygen level going from resting to walking/activity. The chart below shows the patient’s blood oxygen levels at various flow settings. Note: The blue line was at 3.6 L/PM which was their normal sitting flow rate. Their blood oxygen level dropped sharply to 88% within 90 seconds. The orange line shows the minimal drop by turning up the flow rate to 4 L/PM about 15 seconds before starting to walk. The red line shows blood oxygen levels at 4.5 L/PM. The patient reported that the 4.0 L/PM setting felt the best. Blood Oxygen levels were measured with a finger pulse oximeter.
The chart below shows the Patient’s blood oxygen level AT REST, immediately after walking (as shown in the previous chart). The left vertical scale is blood oxygen level and the horizontal scale on the bottom is the number of seconds. Note that the blue line shows further lowering of blood oxygen levels to 81% after stopping activity. The long period of time under 90% blood oxygen level was very uncomfortable for the patient. Note the Orange and Red lines at 3.6 and 4.0 L/PM kept the blood oxygen levels above 90%. The patient reported that the orange 3.6 L/PM setting felt the best.
Below is a chart you can use to track your own blood oxygen levels. Make copies.