

How to use the Rad 97 pulse oximeter

Information for patients, parents and carers

A pulse oximeter is a device that measures the levels of oxygen in the blood. Your child's doctor has asked you to use the pulse oximeter to measure your child's oxygen levels while they are asleep.

This factsheet explains how to use the Rad 97 pulse oximeter. If you have any questions or worries about this, please contact a member of the specialist clinical physiology team.

How to attach the sensor

The sensor will need to be attached to a part of the body that is warm and will completely cover the sensor's detector window. We recommend attaching it to your child's foot.

1. Make sure your child's foot is dry and completely clean before you attach the sensor.
2. On the sensor, find the black square (detector window) and star symbol (red light).
3. Open the pouch and remove the sensor. Remove the clear plastic backing from the sensor and sticky bandage wrap.

- **For a child under 1 year old:**



The sticky side of the sensor attaches to the sole of the foot. Place the sensor so that the tail runs away from your child.



Put the detector window against the fleshy part of the sole of the foot, in line with the fourth toe.



Wrap the sensor around the foot and make sure that the star symbol is directly opposite the detector window (the black square).

Once you have attached the sensor, put a sock on your child's foot to make sure the probe stays attached.

- **For children over one year old**



The sticky side of the sensor attaches to the toe. Place the sensor so that the tail runs away from your child.



Put the detector window against the fleshy part of the big toe.



Wrap the sensor around the toe and ensure that the star symbol is on the toe directly opposite the detector window (the black square).

Once you have attached the sensor, put a sock on your child's foot to make sure the probe stays attached.

How to attach the sensor to the cable

1. Position the sensor's connector tab so that the shiny gold contacts are facing up. Position the patient cable with the red line facing up.
2. Insert the sensor tab into the patient cable until there is a click of connection.
3. Insert the other end of the cable into the front port of the monitor until it clicks into position.



4. Insert the black plug in to the power supply at the back of the monitor. Connect the monitor to the mains/electricity supply. This must be plugged in all night.

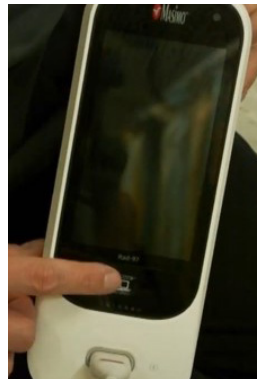


Switching the monitor on

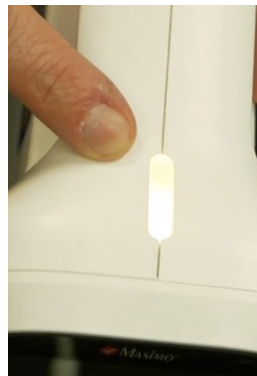
To turn on the monitor, press and hold the power button on the front of the monitor until you hear a beep.

The power button will illuminate Green and the monitor will power on.

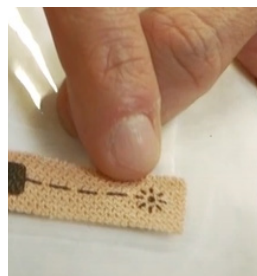
Shortly after, the screen will then go in to sleep mode and go black. The green light on the power button will turn off.



When the screen is blank in sleep mode you will know the monitor is recording as you will see a green status light on the handle of the monitor.



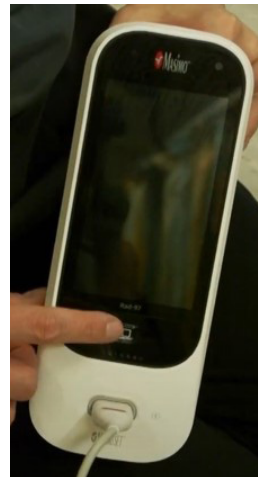
When the machine is switched on and cable is connected, you will see a red light appear on the star of the sensor



Turning the power on

Touch the power button to illuminate the screen.

This will ensure that the sensor is picking up data (this may take up to 30 secs after attaching probe)



Once the monitor is receiving data, numbers will appear on the screen when illuminated.

After a few seconds the screen will go black and return to sleep mode. Don't worry the machine is still recording.

You may touch the power button to check it is collecting data at any point during the night.



Place the monitor on the floor at the end of your child's bed and leave it to collect data.



In the morning

To turn the monitor off, press and hold the power button for more than 8 seconds, until two audible tones sound. The power button will flash **orange** then will power down and turn off. This will save the data.



If you are doing the study for more than one night, please ensure the monitor is turned off in the morning and on again at bedtime.

Contact us

Children's respiratory sleep team

Telephone: **023 8120 8368**

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