

MaxVenturi™

Calibration of the MaxVenturi Oxygen Sensor

The **MaxVenturi** should be calibrated upon initial power-up. Thereafter, Maxtec recommends calibration on a weekly basis. To serve as a reminder, a one week timer is started with each new calibration. At the end of one week a reminder icon (CAL) will appear on the bottom of the LCD. Calibration is recommended if the user is unsure when the last calibration procedure was performed, or if the measurement value is in question.


A new calibration is required when:

- The measured O₂ percentage in 100% O₂ is below 97.0% O₂
- The measured O₂ percentage in 100% O₂ is above 103% O₂
- The CAL reminder icon is blinking at the bottom of the LCD
- If you are unsure about the displayed O₂ percentage


The MaxVenturi can be calibrated at 100% oxygen or room oxygen (20.9%).

The one touch calibration will assume one of these two concentrations.

For room air calibration (easiest)

- 1 Pull sensor and diverter out of the device and hang the sensor cord over the device allowing the sensor to hang in room air. Ensure that the sensor is generally in an upright position.
- 2 Wait for **2 minutes** to allow the sensor to equilibrate in air.
- 3 Press the Cal button  until you read the word **CAL** on the analyzer display. This takes approximately **3 seconds**. The analyzer will now look for a stable sensor signal and a good reading. When obtained, the analyzer will display the calibration gas concentration on the LCD.

For 100% oxygen calibration (most accurate)

- 1 Connect the device to the hospital oxygen supply system.
- 2 Plug the “Room air inlet” using a standard **22 mm** conical plug.
- 3 Turn the ON/OFF valve to the **ON** position and turn the lower valve (labeled “Flow”) counter clockwise a couple turns to allow oxygen to flow through the device.
- 4 Wait for **2 minutes** for the oxygen sensor to equilibrate.
- 5 Press the Cal button  until you read the word **CAL** on the analyzer display. This takes approximately **3 seconds**. The analyzer will now look for a stable sensor signal and a good reading. When obtained, the analyzer will display the calibration gas concentration on the LCD.



Note: Analyzer will read "Cal Err St" if the sample gas is not stable, or if the oxygen sensor has reached its end of life.