

UltraMaxO₂

SENSING

ANALYSIS

DELIVERY

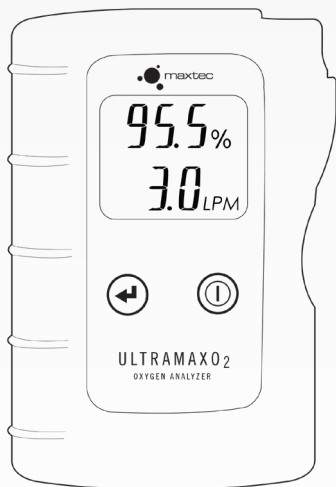
The **UltraMaxO₂** helps oxygen concentrator service technicians looking to **save on costs and time** when checking patient O₂ concentrators. With **integrated oxygen, flow, and outlet pressure monitoring** in a single device, this handheld device is easy to operate, store, and transport and does not require a traditional electrochemical sensor, which reduces the overall maintenance and minimizes the cost of ownership



Part Numbers:

UltramaxO₂.....R223P01-001
 UltraMaxO₂ (International).....R223P01-002

TECHNICAL SPECIFICATIONS



Measurement Range.....	0-100%
Resolution	0.1%
Accuracy and Linearity	1% of full scale at constant temperature, R.H. and pressure when calibrated at full scale
Total Accuracy	±3% actual oxygen level over full operating temp range
Response Time.....	90% of final value in approximately 15 seconds at 23°C
Warm-up Time.....	None required
Operating Temperature	15°C - 40°C (59°F - 104°F)
Storage Temperature	-15°C - 50°C (5°F - 122°F)
Atmospheric Pressure.....	800-1013 mBars
Humidity.....	0-95% (non-condensing)
Power Requirements	2, AA Alkaline batteries (2 x 1.5 Volts)
Battery Life.....	approximately 5000 hours with continuous use
Low Battery Indication.....	"BAT" icon displayed on LCD
Sensor Type.....	Maxtec Max-250 series galvanic fuel cell
Expected Sensor Life	> 1,500,000 O ₂ percent hours minimum (2-year in typical medical applications)
Drift of Measurement < +/-1% of full scale at constant temperature, pressure and humidity	
A Model Dimensions.....	3.0"(W) x 4.0"(H) x 1.5"(D) [76mm x 102mm x 38mm]
A Weight	0.4 lbs. (170g)
AE Model Dimensions.....	3.0"(W) x 36.0"(H) x 1.5"(D) [76mm x 914mm x 38mm]]
AE Weight	0.6 lbs. (285g)



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UltraMaxO₂

Quick Set-Up & Readouts

The UltraMaxO₂ displays quick, easy-to-see readings with an overall much shorter set up time. The user only needs to connect the tubing from the gas sample inlet on the UltraMaxO₂ directly to the oxygen concentrator. The LCD screen on the UltraMaxO₂ displays large, clear numbers of the readings.

Reduced Cost of Ownership With The Ultrasonic Sensor

Because the UltraMaxO₂ does not require an oxygen sensor, there is no need to replace sensors over time. The built in ultrasonic sensor is designed to last the life of the analyzer, unlike a traditional galvanic oxygen sensor. This helps maintain a low cost of ownership because the costs associated with maintenance and regularly replacing the sensor are alleviated.

Ability to Check Outlet Pressure

Having an integrated pressure monitor paired with %O₂ and flow measurement means that you only need one piece of equipment. Other products available potentially exclude this parameter, requiring use of additional equipment when servicing O₂ concentrators.

The design also makes checking outlet pressure extremely simple. Covering the outlet port with your finger will switch the reading from displaying %O₂ & flow rate to displaying the pressure of the O₂ concentrator.

There is also an added feature that allows the user to change the unit display for pressure from pounds per square inch to killipascal; this can be changed by using a switch inside the battery door.



No In-Field Calibration Required

In some cases, medical device service technicians are required to record that they have calibrated the analyzer they are using to check equipment. The UltraMaxO₂ has a calibration verification button that verifies the unit is working correctly. When you hold down the button, it displays "cal ver" to confirm proper calibration, according to the products specifications. If there is an issue with the calibration (i.e. end of life, internal debris, etc.), it will display an error code to let the technician know there is an issue.

Some products used for oxygen concentrator servicing recommend that users calibrate their analyzers at 100% O₂. This requires tanks or bottles of 100% oxygen, and can become difficult to manage.

Using an ultrasonic solution like the UltraMaxO₂ means the gas is already calibrated and the calibration verification button eliminates the need for in-field calibration



Confidence in What's Being Delivered

- The UltraMaxO₂ is lightweight, durable, and easy to transport. The small design fits comfortably in the palm of your hand or in your back pocket. It also has a protective silicone case for added durability which helps to avoid damage during transport

ML-0230 Rev G