

# Maxtec UltraMax and Life Spark Smart Check Ultrasonic Oxygen Analysers (Edition 1.0)

Please review the Introduction (DOCID 226915) and Technical (DOCID 226919) training notes in the document index and answer the following questions.

Please note: Some questions may have multiple answers.

Email \*

michael.lamb@viamed.co.uk

What measurements can both the UltraMaxO2 and Smart Check perform when testing continuous-flow oxygen concentrators? \*

- ☐ Oxygen concentration and temperature only
- ☒ Oxygen concentration, flow and pressure
- ☐ Flow, humidity and temperature
- ☐ Oxygen concentration and pulse volume only

Which additional capability does Smart Check offer that UltraMaxO2 does not? \*

- ☐ Continuous-flow measurement
- ☐ Oxygen concentration measurement
- ☒ Pulse-dose volume measurement
- ☐ Outlet pressure measurement

What is the Smart Check pulse-volume measurement range? \*

- ☐ 0 - 10 ml
- ☐ 3 - 70 ml
- ☒ 3 - 200 ml
- ☐ 20.9 - 96 ml

Which analyser is suitable for low-pressure testing of equipment such as CPAP machines, BiPAP ventilators and nebulisers? \*

- ☐ UltraMaxO2 only
- ☒ Smart Check only
- ☐ Both analysers
- ☐ Neither analyser

What is the oxygen measurement range of both analysers when checking an oxygen concentrator? \*

- ☐ 0 - 100%
- ☐ 15 - 99%
- ☒ 20.9 - 96%
- ☐ 21 - 50%

How should pressure be measured using either analyser? \*

- ☐ Disconnect the sample tubing
- ☒ Cover the gas sample outlet with a finger
- ☐ Hold down the calibration button
- ☐ Change the analyser to pulse mode

Which statement about the sensors used by UltraMaxO2 and Smart Check is correct? \*

- ☐ Both require an electrochemical oxygen sensor to be replaced annually
- ☐ Only Smart Check contains a replaceable electrochemical sensor
- ☐ Only UltraMaxO2 contains a replaceable electrochemical sensor
- ☒ Both use ultrasonic technology and do not contain a replaceable electrochemical oxygen sensor

When using Smart Check in pulse mode, how long should the operator wait for the readings to stabilise? \*

- ☐ Approximately 2.5 seconds
- ☐ Approximately 10 seconds
- ☒ 12 pulse cycles
- ☐ Until the analyser switches off automatically

Which statement correctly describes the regulatory distinction between the two analysers? \*

- ☐ Both are CE marked as medical devices
- ☐ Neither analyser is CE marked
- ☒ UltraMaxO2 is CE marked as a medical device, while Smart Check is CE marked as an industrial Class I device
- ☐ Smart Check is CE marked as a medical device, while UltraMaxO2 is an industrial Class I device

Which statement correctly describes the intended use of UltraMaxO2 and Smart Check? \*

- ☐ Both can continuously monitor oxygen being delivered to a patient
- ☒ Both are intended for equipment testing during oxygen concentrator service and repair
- ☐ Smart Check can monitor patients, but UltraMaxO2 cannot
- ☐ UltraMaxO2 can monitor patients, but Smart Check cannot

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