



Smart Check Ultrasonic Oxygen Analyser



LIFE SPARK
MEDICAL

Designed for accurate testing of oxygen concentrators and therapy devices

- All-in-one analyser measuring **oxygen concentration, flow, pressure, and pulse volume** in a single device
- Suitable for **continuous flow and pulse dose (POC) oxygen concentrators**
- **Low-pressure mode** allows testing of **CPAP, BiPAP, and nebulisers**
- **Portable, handheld design** for easy use in clinical, service, and homecare environments
- **Backlit display and built-in torch** for use in low-light or confined spaces
- **Integrated tube management** for tidy, efficient testing
- **Fast start-up and response times** for quick, accurate results
- **Simple calibration check** for ease of routine testing
- **Battery-powered with long battery life**, ideal for mobile use
- **Excellent performance at a competitive price**, reducing the need for multiple test devices
- **No oxygen sensor required**



Smart Check uses ultrasonic measurement technology to deliver accurate, repeatable results across a wide range of oxygen therapy equipment. Designed for routine testing, servicing, and maintenance, it provides dependable performance with minimal setup, making it well suited to clinical engineering, service, and homecare environments.

Actual Size



VIAMED



Dimensions	75 x 147 x 27 mm (2.95 x 5.79 x 1.06")
Weight	230g (including batteries)
Battery	
Type	2 x AA batteries
Life	1 year typical use (16,000 read cycles)
Operating Temperature	5° - 40°C (41° - 104°F)
Storage Temperature	-25° - 70°C (-13° - 158°F)
Auto-Off	2 minutes
Atmospheric Pressure	700 - 1060 hPa absolute
Humidity	0 - 90% (non-condensing)
Pressure Units	PSI, kPa, cmH ₂ O
Sample Rate	Continuous Mode: 1Hz Pulse Rate: 19.2 Hz
Response Time	10 seconds
Start-up Time	2.5 seconds
Concentration Mode	
Range (concentrator)	20.9 - 96%
Range (pure O ₂)	20.9 - 100%
Accuracy	± 1.5% full scale
Resolution	0.10%
Flow Mode	
Range	0 - 10 lpm volumetric
Resolution	0.1 lpm
Accuracy	± 0.2 pm
Pulse Mode	
Range	3 - 200 ml
Resolution	0.1 up to 100ml, 1 above 100ml
Accuracy	± 3 ml
Pressure Mode	
Range	High: 0 - 40 psi (0 - 275 kPa) Low: 0 - 70 cmH ₂ O PSI and cmH ₂ O: 0.1
Resolution	kPa: 0.1 up to 200, 1 above 200
Accuracy	High: ± 0.5% of reading Low: ± 0.3 cmH ₂ O
Part Numbers	
Life Spark Smart Check Oxygen Analyser	0111266

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