

The CONTEC CMS50D is a dual-colour OLED fingertip pulse oximeter with a 1.3" 160x64 display, SpO2 and pulse rate waveform plus bar graph, four display directions, 6 display modes, 4 adjustable brightness levels and >30-hour battery life. SpO2 35-99%, pulse 30-250 bpm, 2% accuracy. 57x31x32mm. CE certified. Available from Vital Medical South Africa.

Dual-Colour OLED Display with Four Directions and Six Display Modes

The CONTEC CMS50D fingertip pulse oximeter is distinguished by its 1.3-inch double-colour OLED display with 160x64 pixel resolution, which provides high-contrast SpO2 and pulse rate data in a format that is clearly readable in both bright and low-light environments. The four display direction options – allowing the display to be rotated to four orientations – mean that the CMS50D can be read correctly regardless of which finger or hand is used, and regardless of which direction the device is facing when held up for reading. Six display mode options allow the user to choose between different combinations of SpO2 value, pulse rate value, plethysmogram waveform and pulse bar graph, tailoring the display content to the user's preference or clinical need. Four brightness levels allow the display to be adjusted from minimum for battery conservation in low-light environments to maximum for readability in bright ambient light.

Plethysmogram Waveform and Accurate Dual-Parameter Measurement

The CMS50D displays both a plethysmogram (pulse waveform) and a pulse bar graph alongside the numerical SpO2 and pulse rate values. The plethysmogram waveform provides an additional visual check on signal quality – a well-formed, consistent waveform confirms good probe contact and reliable signal acquisition, while an irregular or low-amplitude waveform indicates poor perfusion or probe positioning issues. SpO2 measurement covers 35-99% with 2% accuracy in the 70-99% range and 1% resolution. Pulse rate measurement covers 30-250 bpm with 2 bpm or 2% accuracy (larger value applies) and 1 bpm resolution. Continuous use exceeds 30 hours on 2 x 1.5V AAA alkaline batteries, and low battery indication warns before power is exhausted.

Versatile Hospital, Home and Sports Use

The CMS50D at 57 x 31 x 32mm is a compact, pocket-sized device suitable for rapid SpO₂ assessment in hospitals, emergency transport, GP consulting rooms, home monitoring and sports performance applications. Ambient light interference resistance and performance at low perfusion states ensure reliable readings in real-world conditions. Automatic power-off conserves battery life when the device is not in use, and the display format is retained in memory after power-off so the user's preferred display configuration is restored at next use. CE certified, the CMS50D is available from Vital Medical as a reliable dual-colour OLED fingertip oximeter for South African clinical and home use.

Technical Specifications

Specification	Detail
Brand	CONTEC
Model	CMS-50D
Type	Fingertip Pulse Oximeter (Dual Colour OLED)
Display	1.3" Double Colour OLED, 160x64 resolution
Display Directions	4
Display Modes	6
Brightness Levels	4 (adjustable)
SpO ₂ Range	35-99%
SpO ₂ Accuracy	±2% (70-99%); unspecified (<70%)
SpO ₂ Resolution	1%
Pulse Rate Range	30-250 bpm
Pulse Rate Accuracy	±2 bpm or ±2% (larger applies)
Pulse Rate Resolution	1 bpm
Plethysmogram	Yes (waveform + bar graph)
Low Battery Alarm	Yes
Auto Power-Off	Yes
Battery	2 x 1.5V AAA alkaline
Continuous Use	>30 hours
Dimensions	57 x 31 x 32mm
Certifications	CE

SKU: VM-POX50D