



The CONTEC CMS50Q1 Child Paediatric Fingertip Pulse Oximeter (VM-PO50Q1) is a fingertip pulse oximeter, original model CMS50Q1, with a smaller clip aperture sized for children's fingers. It measures SpO₂ from 35–99% ($\pm 2\%$ accuracy in the 70–99% range, 1% resolution) and pulse rate from 30–250 bpm (± 2 bpm or $\pm 2\%$, whichever is larger, 1 bpm resolution). It has an LED display with a pulse bar graph, a pulse sound function, a low battery indication and automatic power-off when no finger is detected. It runs on 2 × 1.5V AAA alkaline batteries and is CE certified. Available in South Africa from Vital Medical.

Paediatric Fingertip SpO2 Monitoring in a Compact, Child-Friendly Design

The CONTEC CMS50Q1 Child (VM-PO50Q1) is a fingertip pulse oximeter adapted for paediatric use. Its smaller clip aperture is sized for children's fingertips, where a standard adult oximeter would be too large to make reliable contact with the sensor. Correct probe fit is critical in paediatric pulse oximetry. A probe that does not make firm, consistent contact can give unreliable or absent readings, and excessive pressure on a small finger can cause discomfort and measurement error. The CMS50Q1 Child offers the same SpO2 range (35–99%, $\pm 2\%$ accuracy in the 70–99% range) and pulse rate range (30–250 bpm) as the adult CMS50Q1, in a format suited to paediatric finger sizes in hospital, clinic and home settings.

LED Display, Pulse Sound and Auto Power-Off

The CMS50Q1 Child has an LED display showing SpO2 and pulse rate, alongside a pulse bar graph that confirms signal quality. The pulse sound function gives an audible beep with each detected pulse. This is a useful extra cue when monitoring restless or sleeping children, where watching the display continuously is not always practical. A low battery indication and automatic power-off when no finger is detected help conserve battery life during intermittent monitoring. It runs on 2 × 1.5V AAA alkaline batteries, so no rechargeable battery infrastructure is needed.

Paediatric SpO2 Monitoring in South African Clinical Practice

Pulse oximetry in children is used during and after procedures requiring sedation or anaesthesia, in paediatric respiratory illness such as pneumonia, bronchiolitis and asthma, in post-operative recovery, and in home monitoring for children with chronic cardiorespiratory conditions. The CMS50Q1 Child is a cost-effective paediatric SpO2 monitoring option for South African paediatric wards, children's hospitals, GP paediatric consulting rooms and home nursing care. Available in South Africa from Vital Medical.

TECHNICAL SPECIFICATIONS TABLE

Specification	Detail
Brand	CONTEC
Model	CMS50Q1
SKU	VM-PO50Q1
Type	Fingertip Pulse Oximeter (Child / Paediatric)
SpO2 Range	35-99%
SpO2 Accuracy	$\pm 2\%$ (70-99%); unspecified (<70%)
SpO2 Resolution	1%
Pulse Rate Range	30-250 bpm
Pulse Rate Accuracy	± 2 bpm or $\pm 2\%$ (larger applies)
Pulse Rate Resolution	1 bpm
Display	LED with bar graph
Probe Size	Child (paediatric fingertip)
Low Battery Alarm	Yes
Pulse Sound	Yes
Auto Power-Off	Yes (no finger detected)
Power Supply	2 $\times$ 1.5V AAA alkaline batteries
Certifications	CE

SKU: VM-PO50Q1