

V3304 Pulse Oximeter with SAC™ Technology



Using refined noise-reduction hardware (digital processing) and a unique patented software algorithm Serial Auto Correlation (SAC™), the V3304 is able to look at pulse oximetry data in a whole new way. This innovative oximeter technology analyzes a digital signal at a rate of 120 times per second and compares it to previous pulse data. These pulses are constantly stored and updated, and used as dynamic templates to determine the validity or invalidity for newly encountered pulsatile signals. The V3304 offers the same advanced features as the V3402 but in a table top package with extended data storage capabilities. Three user-selectable averaging modes are available, visual and audible indicators for SpO₂ and pulse rate, an 8 segment LED bar indicator for pulse strength as well as high and low limit adjustable alarms for SpO₂ and pulse rate. Low priority alarms warn the user of system setup malfunctions such as a disconnected probe. The audible indicators and alarms vary in rate and pitch to indicate changes in pulse rate and SpO₂ level, respectively.

Animal IDs from 0-99 are used by the V3304 to delineate multiple animal data measurements. An optional serial printer, is available which can be used to output animal data in continuous data log mode (every 5 seconds) or trend mode (every 4-30 seconds). Trend data continues to be stored even when data is being printed using the data log mode. The V3304 can store up to 90 hours of trend data for up to 99 individual animals. The trend storage interval is user selectable from 4-30 seconds. Decreasing the trend storage interval decreases the maximum length of time data can be stored in memory. Output of data to a computer requires the use of printer interface cable and PC adapter cable. The V3304 Pulse Oximeter comes with an instruction manual, AC adapter/charger, foot oximeter extension cable, small reflectance probe and the small to medium Y-Clip probe. The unit is powered by an internal rechargeable lead acid battery.

- Internal rechargeable battery
- Easy-to-read LED display with adjustable brightness
- Variety of reusable sensors designed for animal applications
- Quantitative pulse strength bar
- Advanced Digital SAC™ oximetry for demanding research environments

Specifications

Display	
SpO₂ & Plus Rate	3-digit LED display, 10 mm (0.43 in) high
SpO₂:	
Range	0 to 100%
Accuracy	±2% at 70 to 100% ±3% at 50 to 69%
Alarm Range	High: 50 to 100% and Off (1% steps) Low: 50 to 99% and Off (1% steps)
Averaging	4, 6, or 16 pulse beat average
Pulse Rate:	
Range	20 to 350 BPM
Accuracy	±1 beat or 2% whichever is greater
Alarm Range	High: 5 to 350 BPM and Off (5 BPM steps) Low: 5 to 350 BPM and Off (5 BPM steps)
Averaging	8 or 16 second average
Battery Life	Standard Lead-Acid battery: Internal rechargeable; not user replaceable. Fully charges in about 6 hours. Approximately 4.5 hours continuous use.
Printer Output	SpO ₂ and pulse rate can be printed every five (5) sec (data log). Data saved every four (4) to thirty (30) sec can be printed (trend) Analog Output (optional) Digital Output (optional)
Safety Approvals	Designed to meet IEC-601-1, CSA 125, UL 544, and CE (EMC)
AC Charger Voltage Requirements:	
Wall Mount	105 to 125 VAC, 60 Hz 100V – Hz (Optional)
Table Top	230 VAC; 50/60 Hz
Dimensions (H x W x D)	216 x 82 x 140 mm (3.4 x 8.5 x 5.5 in)
Weight	850 grams (30 ounces)

Catalog No.

Product

CGS 8235.68	V3404 Digital Table Top Pulse Oximeter, 110 VAC, 60 Hz
CGS 8236.68	V3404 Digital Table Top Pulse Oximeter, 220 VAC, 50 Hz

Sensors and Sensor Accessories

CGS 8213.68	Small Reflectance or Rectal Pulse Ox Sensor
CGS 8214.68	Regular Reflectance or Rectal Pulse Ox Sensor
CGS 8215.68	Small to Medium Universal Y or Lingual Pulse Ox Sensor
CGS 8216.68	Large Universal Y or Lingual Pulse Ox Sensor
CGS 8217.68	C-Clip Pulse Ox Sensor
CGS 8218.68	C-Clip Replacement
CGS 8219.68	Y-Clip Replacement
CGS 8220.68	Oximetry Cable, 5 ft.
CGS 8221.68	Oximetry Simulator with 5 ft. Cable
CGS 8226.68	Adhesive Strips, pkg. of 40

Optional Accessories

CGS 8237.68	Printer and Cable, 110 VAC, 60 Hz
CGS 8238.68	Printer and Cable, 220 VAC, 50 Hz
CGS 8239.68	Printer Interface Cable
CGS 8240.68	PC Interface Cable
CGS 8241.68	Digital Output Adapter
CGS 8242.68	Analog Output Adapter
CGS 8190.68	IV Pole Bracket