

## V3402 Hand-Held Pulse Oximeter with SAC™ Technology



- Powered by AC charger or 6 disposable AA batteries
- 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

Using refined noise-reduction hardware (digital processing) and a unique patented software algorithm (SAC™), the V3402 is able to look at pulse oximetry data in a whole new way. This 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, updated, and used as dynamic templates to determine the validity or invalidity for newly encountered pulsatile signals. The new V3402 digital hand held oximeter offers advanced pulse oximetry specifically for animal

applications. The V3402 builds on the features of the V3303, and offer advanced digital signal analysis to a wide range of user-customizable features. Two user-selectable averaging modes are available, visual and audible indicators for SpO<sub>2</sub> and pulse rate, an 8 segment LED bar indicator for pulse strength as well as high and low limit adjustable alarms for SpO<sub>2</sub> 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 SpO<sub>2</sub> level, respectively.

Animal IDs from 0-99 are used by the V3402 to delineate multiple animal data measurements. An optional serial printer, can be used to output animal trend data either as it is collected (data log mode) or from stored data. The V3402 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. Output of data to a computer requires the use of printer interface cable and PC adapter cable. The V3402 Pulse Oximeter comes with an instruction manual, protective rubber boot, small reflectance probe and the small to medium Y-Clip probe. The unit is powered by six 'AA' alkaline batteries. An optional AC adapter is available.

### Specifications

#### Displays:

SpO <sub>2</sub>	LED numeric display, 7.62 mm (0.3 in) high
Pulse Rate	LED numeric display, 7.62 mm (0.3 in) high
Pulse Strength	Logarithmically scaled, 8-segment bar graph

#### SpO<sub>2</sub>:

Range	0 to 99%
Accuracy	±2 at 70-99%; ±3 at 50 to 69%
Averaging	4, 8, 16 beat average
Alarms	Low 50 to 99% and Off High 50 to 99% and Off

#### Pulse Rate:

Range	20 to 350 bpm
Accuracy	±1 beat or 2% whichever is greater
Averaging	8 or 16 second average
Alarms	Low 5 to 350 and Off High 5 to 350 and Off

#### Storage:

Parameters	SpO <sub>2</sub> Pulse rate and Relative Time
Interval	4 to 30 sec
Capacity	14 hrs of storage at 30 sec intervals

#### Battery Life

35 hrs continuous use

#### Printer Output

RS232C for trend output via computer, Infra-Red Link for HP 82240B Infra-Red Printer

#### Safety Approvals

UL 544 Listed, Certified by TUV to 601-1, CSA 125, EN865, CE to the MDD version available

#### Voltage Requirements

(6) 'AA' Alkaline or NiCAD Batteries

#### Dimensions, H x W x D

16.76 x 6.98 x 6.36 cm (6.6 x 2.75 x 1.43 in)

#### Weight

.6 kg (1 lb 5 oz) with batteries and boot

### Catalog No.

### Product

CGS-8229.68

V3402 Pulse Oximeter

#### Sensors and Sensor Accessories

CGS 8213.68

Small Reflectance or Rectal Pulse Ox Sensor

CGS 8213.68

Regular Reflectance or Rectal Pulse Ox Sensor

CGS 8214.68

Small to Medium Universal Y or Lingual Pulse Ox Sensor

CGS 8215.68

Large Universal Y or Lingual Pulse Ox Sensor

CGS 8216.68

C-Clip Pulse Ox Sensor

CGS 8217.68

C-Clip Replacement

CGS 8213.68

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

Descontinuado  
CGS 8230.25

Infrared Printer

CGS 8231.68

Printer for AH 72-3164, 110 VAC, 60 Hz

CGS 8232.68

Printer for AH 72-3261, 220 VAC, 50 Hz

CGS 8233.68

AC Adapter for V3402, 105-125 VAC, 60 Hz

CGS 8234.68

AC Adapter for V3402, 208-252 VAC, 50 Hz