

V9004 Series Intelligent Capnography and more



The V9004 is a versatile Table Top capnograph with a graphical vacuum fluorescent display which can be ordered with either pulse oximetry, or pulse oximetry and fractional inspired oxygen, FiO_2 . Available parameters (CO_2 or CO_2 and SpO_2 plethysmogram) can be displayed as waveforms or trends. In addition to waveforms, the V9004 also displays an average of ETCO_2 , respiration rate and when available $\% \text{SpO}_2$, heart rate and $\% \text{O}_2$.

- High resolution vacuum fluorescent display
- Simplified menu structure
- Monitoring of both intubated and non-intubated patients
- Flexibility to incorporate SpO_2 and FiO_2
- Patented moisture removal system

Specifications

Display:

Displayed Trends	Graphical display, factory selectable sample rate, user selectable trend
Displayed Waveforms	15 hr display at 12 sec sample rate 9 hr display at 4 sec sample rate, Selectable CO_2 or CO_2 /Plethysmogram waveform

CO_2 :

Measurement	Non-Dispersive IR absorption
Measurement Range	0 to 10% CO_2
Units	User-selectable: mmHg Vol. %, kPa
Display Range	0 to 100 mmHg or 0 to 10.0% CO_2 or 0 to 13.3 kPa
Accuracy	± 2 mmHg; $\pm 0.3\%$; ± 0.3 kPa, or 4% of reading, whichever is greater (0 to 10% CO_2)
Resolution	1 mmHg; 0.1%; 0.1 kPa
N_2O Compensation	User-selectable 40% (default = OFF)
Averaging	4-breath average

Respiration Rate:

Range	0 to 150 ± 1 bpm
Averaging	4-breath average

SpO_2 (Optional):

Range	0 to 100%
Accuracy	$\pm 2\%$ at 70 to 100%; $\pm 3\%$ at 50 to 69%
Averaging	4, 8, 16 beat, user-selectable

Pulse Rate (Optional):

Range	20 to 350 bpm
Accuracy	± 1 beat or 2% whichever is greater
Averaging	8 or 16 seconds, user-selectable
Pulse Tone	Pitch corresponds to SpO_2 value, Volume adjustable or OFF

FiO_2 (Optional):

Range	0 to 100%
Accuracy	$\pm 2\%$
Response Time	< 10 sec. to 90%
Drift	< 2% full scale per month

Power Requirements

Battery	Nickel Cadmium battery, 6 VDC, internal rechargeable, not replaceable, fully charged continuous - use life 2 hours approximate, maximum full charge time 4 hours
Serial Output	RS232C: tabular trends, patient data
Analog Output	Any three of : CO_2 waveform, Plethysmogram, End Tidal CO_2 , Respiration Rate, Inspired CO_2 , $\% \text{SpO}_2$, Pulse Rate Fractional Inspired Oxygen, 0V or 1V Cal signal. Range 0 to 1 VDC full scale
Safety Approvals	Designed to meet IEC 601-1, CSA 125, UL 544, and IEC 601-1-2 (EMC CE), ISO 9001 Certified

Four user-selectable averaging modes are available for oximetry along with numeric and audible alarms for high and low values of all measured parameters. 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_2 level.

The V9004 Table Top capnograph comes complete with an instruction manual, AC adapter/charger, and the animal attachment kit. When ordered with oximetry the system also includes a 5 foot Oximeter Extension cable, small reflectance probe, and the small to medium Y-Clip probe are included. The FiO_2 T-Adapter, and the FiO_2 sensor, and cable, are included when the V9004 is ordered with FiO_2 . A gas calibration kit and other airway accessories are available. A graphics printer, is available to printout displayed waveforms from the V9004. The AC adapter for the graphics printer is not included but is recommended. The PC/Printer Interface Cable, is used to export data to a PC running Windows™ 95 or higher.

Catalog No.

Product

CGS-8176.68	Table Top Capnograph, 220 VAC, 50 Hz
CGS-8177.68	TT Capnograph and Oximeter, 220 VAC, 50 Hz
CGS-8178.68	TT Capnograph, Oximeter and FiO_2 220 VAC, 50 Hz
CGS-8179.68	Table Top Capnograph, 110 VAC, 60 Hz
CGS-8180.68	TT Capnograph and Oximeter, 110 VAC, 60 Hz
CGS-8181.68	TT Capnograph, Oximeter & FiO_2 110 VAC, 60 Hz

Capnograph Accessories

CGS-8182.68	Adapter T, FiO_2
CGS-8183.68	FiO_2 Sensor
CGS-8184.68	FiO_2 Sensor Cable

Other Accessories

CGS-8185.68	V3408 Graphics Printer and Cable
CGS-8186.68	AC Adapter/Charger for V3408, 110 VAC, 60 Hz
CGS-8187.68	AC Adapter/Charger for V3408, 208-252 VAC, 50 Hz
CGS-8188.68	Printer Paper, pkg of 4
CGS-8188.68	PC/Printer Interface Cable
CGS-8189.68	IV Pole Bracket