



CDI™ Blood Parameter Monitoring System 500

Optical fluorescence and reflectance-based in-line system to continuously monitor eleven critical blood gas parameters with lab-quality accuracy

SPECIFICATIONS

Displayed parameters	Operating range	Resolution
pH	6.8 – 8.0 pH units	0.01 pH units
PCO ₂	10 – 80 mmHg (1 – 11 kPa)	1 mmHg (0.1 kPa)
PO ₂	10 – 500 mmHg (1 – 67 kPa)	1 mmHg (0.1 kPa)
K ⁺	1.0 – 8.0 mmol/L	0.1 mmol/L
Temperature	10°C – 45°C	0.1°C
Oxygen saturation (SO ₂)	60% – 100%	1%
Hematocrit (Hct)	15% – 45%	1%
Total hemoglobin (Hgb)	5 – 15 g/dL	0.1 g/dL
Oxygen consumption	10 – 400 mL/min	1 mL/min
BE	-25 – 25 mEq/L	1 mEq/L
HCO ₃	0 – 50 mEq/L	1 mEq/L
Blood flow	0 – 9.9 L/min	0.1 L/min

Physical specifications	Monitor	Calibrator
Height	11.0" (27.9 cm)	12.5" (31.8 cm)
Width	12.5" (31.8 cm)	8.0" (20.3 cm)
Depth	6.0" (15.2 cm)	8.0" (20.3 cm)
Weight	16.1 lbs (7.3 kg)	8.4 lbs (3.8 kg)

Monitor power requirements and specifications	100 – 240 VAC, 50/60 Hz 12 V lead acid backup battery Data output port: RS-232 serial interface Pumping systems input port: RS-232 serial interface
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CDI510H shunt sensor	Sterile, heparin-treated Priming volume 1.2 mL
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System measurement cycle time	pH, PCO ₂ , PO ₂ = one measurement per second K ⁺ = one measurement per six seconds SO ₂ , Hct, Hgb = one measurement per eighteen milliseconds
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System display update	Every six seconds
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CDI™ Blood Parameter Monitoring System 500

Ordering Information

DESCRIPTION

CDI™ System 500	CATALOG NO.	UNITS/CASE
with ONE blood parameter module and one Hct/Sat probe	500AHCTSET	1
Or		
CDI™ System 500	500AVHCTSET	1
with TWO blood parameter modules and one Hct/Sat probe		

The CDI™ System 500 is comprised of the following components

Monitor with ONE blood parameter module and one Hct/Sat probe	500AHCT	1
Or		
Monitor with TWO blood parameter modules and one Hct/Sat probe	500AVHCT	1
Calibrator	540	1
Monitor Pole Clamp, 7.0" (17.8 cm) arm length, calibrator mount	517	1
Cable head bracket	519	1

Accessories for use with the CDI™ System 500

Gas A, calibration gas for use with Calibrator model 540	506	1
Gas B, calibration gas for use with Calibrator model 540	507	1
Printer paper	7310 .....	.5
Monitor pole clamp, 4.5" (11.4 cm) arm length	518 .....	.1

Disposables for use with CDI™ System 500

CDI H/S Cuvette 1/4" x 1/4"	6914 .....	.20
CDI H/S Cuvette 3/8" x 3/8"	6913 .....	.20
CDI H/S Cuvette 1/2" x 1/2"	6912 .....	.20
CDI H/S Cuvette 1/4" x 1/4" with 6" (15.2 cm) extension tube	6934 .....	.10
CDI H/S Cuvette 3/8" x 3/8" with 6" (15.2 cm) extension tube	6933 .....	.10
CDI H/S Cuvette 1/2" x 1/2" with 6" (15.2 cm) extension tube	6932 .....	.10
CDI Shunt sensor, heparin treated	CDI510H .....	.20
Shunt sensor bypass line 1/4"	CX-FAC02 .....	.20
Shunt sensor bypass line 1/4", with X Coating™	CX-FAC02X .....	.20
Shunt sensor bypass line 3/8"	CX-FAC03 .....	.20
Shunt sensor bypass line 3/8", with X Coating™	CX-FAC03X .....	.20
Shunt sensor bypass line 1/2"	CX-FAC04 .....	.20
Shunt sensor bypass line 1/2", with X Coating™	CX-FAC04X .....	.20



CDI Model 540 calibrator



CDI System 500 shunt sensor



CDI H/S cuvette

Features

CDI™ Blood Parameter Monitoring System 500

- Continuous measurements and calculations
- Lab-quality accuracy
- Easy-to-use in-line shunt sensor
- Color LCD display
- Integral printer
- Automated 2-point gas tonometered calibration