



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

CDI510H shunt sensor	Sterile, heparin-treated
	Priming volume 1.2 mL

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

System display update	Every six seconds
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CDI™ Blood Parameter Monitoring System 500

▶ Ordering Information

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

✓ 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



CDI Model 540 calibrator



CDI System 500 shunt sensor



CDI H/S cuvette

Xcoating™ is Terumo's own biocompatible hydrophilic polymer surface coating