

Crit-Line® IV Monitor Features

Crit-Line technology provides caregivers with information about changes in intravascular blood volume and vascular refill rate during dialysis in order to make timely interventions.

Continuous Monitoring of:

Percent Change in Intravascular Blood Volume

Allows the clinician to remove the maximum amount of fluid while preventing common symptoms of dialysis (e.g., nausea, cramping, vomiting).

Oxygen Saturation

Provides continuous, accurate measurement of oxygen saturation.

Hematocrit and Hemoglobin

Regular monitoring of hematocrit and hemoglobin is important for managing anemia in hemodialysis patients. The Crit-Line IV monitor allows regular, real-time monitoring of hematocrit and calculation of hemoglobin levels during hemodialysis.



CRIT-LINE[®] IV
Where Therapy and Diagnostics Meet

For more technical information about the Crit-Line IV monitor, call 800-227-2572

Crit-Line IV Monitor Specifications

Dimensions	Crit-Line IV Monitor: 5.50" H x 9.00" W x 1.60" L Sensor Clip: 1.75" H x 1.00" W x 3.00" L Pole Mount: 3.5" H x 5.75" W x 4.00" L												
Weight	Crit-Line IV Monitor: 0.80 lbs Sensor Clip: 0.25 lbs Pole Mount: 1.25 lbs												
Sensor Device Cable Length	42"												
Storage and Operating	50°F to 104°F (10°C to 40°C)												
Transportation Conditions	-40°F to 257°F (-40°C to 125°C)												
Oxygen Saturation Instrument Range and Accuracy	<table><thead><tr><th>@ Hct</th><th>Accurate within ± 3%</th><th>Accurate within ± 5%</th></tr></thead><tbody><tr><td>45 to 60</td><td>60 to 100</td><td>50 to 100</td></tr><tr><td>20 to 45</td><td>50 to 100</td><td>30 to 100</td></tr><tr><td>10 to 20</td><td>Not Specified</td><td>40 to 100</td></tr></tbody></table>	@ Hct	Accurate within ± 3%	Accurate within ± 5%	45 to 60	60 to 100	50 to 100	20 to 45	50 to 100	30 to 100	10 to 20	Not Specified	40 to 100
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45 to 60	60 to 100	50 to 100											
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Hematocrit Instrument Range and Accuracy	10 Hct to 60 Hct: ±1 Hct SD												
HD Blood Flow Rate	15 ml/min to 1300 ml/min												
Internal Data Storage	Stores previous 30 days of patient treatment data.												
Power	12 VDC/1A/12W												
Communication Ports	DB9 Serial (COM1)/9600 Baud 8N1 USB ZigBee Radio												
Water Ingress Protection	Crit-Line IV Monitor: IP-64 front panel. Do not immerse in liquid. Sensor Clip: IPX-0. No special protection provided. Do not immerse in liquid.												
Anesthetic Suitability	Not suitable												
Mode of Operation	Continuous												

Note: The CLiC device is a Clinical Laboratory Improvement Amendment (CLIA) exempt instrumentation device.



Fresenius Renal Technologies, a division of Fresenius Medical Care North America
920 Winter Street • Waltham, MA 02451 • www.fmcna-crit-line.com
Customer Service: 800-323-5188 • **Technical Support:** 800-227-2572

Indications for Use: The Crit-Line IV monitor is used to non-invasively measure hematocrit, oxygen saturation and percent change in blood volume. The sensor clip measures hematocrit, percent change in blood volume and oxygen saturation in real time for application in the treatment of dialysis patients with the intended purpose of providing a more effective treatment for both the dialysis patient and the clinician. Based on the data that the monitor provides, the clinician/nurse, under physician direction, intervenes (i.e. increases or decreases the rate at which fluid is removed from the blood) in order to remove the maximum amount of fluid from the dialysis patient without the patient experiencing the common complications of dialysis which include nausea, cramping and vomiting. The Crit-Line blood chamber is a sterile, single use, disposable, optical cuvette designed for use with the Crit-Line sensor clip during acute and chronic hemodialysis therapy to non-invasively measure hematocrit, percent change in blood volume and oxygen saturation. The blood chamber is connected between the arterial bloodline and the dialyzer within the extracorporeal circuit during the hemodialysis treatment.

Caution: Federal (US) law restricts this device to sale by or on the order of a physician.

Note: Read the Instructions for Use for safe and proper use of this device. For a complete description of hazards, contraindications, side effects and precautions, see full package labeling at www.fmcna.com.

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