Compact monitor with many features previously found only in complete modular systems.



With a compact design and at less than 18 pounds, the Eagle 4000 fits almost any healthcare environment. Plus it has a large 10.4" display that provides superior visibility.

The fully-featured Eagle 4000 is designed for use in many care areas. DRE offers configurations with monitoring features such as simultaneous multi-lead arrhythmia analysis, multilead arrhythmia event recall, enhanced multi-lead ST segment measurement capabilities, thermodilution cardiac output determination with cardiac indices calculation, pulmonary and dosage calculations, non-invasive blood pressure, end-tidal carbon dioxide and more. The basic configuration includes multilead ECG, respiration, two temperatures (or cardiac output), two invasive blood pressures and pulse oximetry.



Performance Specifications

Data storage

Display	
Size	10.4-inch diagonal
Туре:	
Monochrome	Hi-Bright Electroluminescent (EL)
	ilm Transistor (TFT) Liquid Crystal Display (LCD)
	640 by 480 pixels
Number of traces	6
	6.0 at 25 mm/sec
Sweep speed:	
	O225 mm/sec (with erase bar)
	6.25, 12.5 or 25 mm/sec (with erase bar)
Waveform display options	Full or individual
	Displays non-real-time information without
	obstructing the display of real-time information
Display organization	Prioritized by parameter
Controls	T : K k k k k
Standard	
Silence Alar	m, Graph Go/Stop, Zero All, and Display On/Off
Due en este a	
Processing	MC(0222 22 bit into grated migra controller
Main processor	MC68332 32-bit integrated microcontroller
	(19.968 MHz)
Data acquisition processor	MC68332 32-bit integrated
Creation and concern	microcontroller (15.72 MHz)
Graphics processor	TMS34010 32-bit graphics system processor
Dragram starage	(50 MHz)
-	4-MB flash memory

Alarms

Classification	4 levels — Crisis, Warning, Advisory, and Message
Notification	Audible and visual
Setting	Default and individual
Silencing	1 minute, current alarm only
Volume	Default 70%, 70 dB measured at 1 meter

Analog Output

ECG:	
Gain	1 V/mV ±10%
DC offset	±100 mV (max)
Noise	
Frequency response	0.05 Hz to 100 Hz +7/–0 Hz
Blood pressure:	
Gain	
DC offset	±20 mV (max)
Noise	<5 mVp-p (0-300 Hz)
Frequency response	dc to 50 Hz +2/–0 Hz
Description	

Respiration

nesphation	
Measurement technique	Impedance variation detection
Range:	•
5	
Respiration rate	1 - 200 breaths per minute
Base impedance	100 - 1000 W at 52.6 kHz
	excitation frequency
Detection sensitivity	0.4 to 10 W variation
Waveform display bandwidth	0.1 to 1.8 Hz (–3 dB)
Alarms	User-selectable upper and lower respiration
	rate limits, and user-selectable apnea limit

1800 Williamson Ct. • Louisville, Kentucky 40223 USA 800-477-2006 • 502-244-4444 • FAX: 502-244-0369

www.dremed.com

2-MB RAM (battery backed-up)



Equipment for the way you operate

Performance Specifications continued

ECG

200	
(Optional) 12SL leads available	I, II, III, V, aVR, aVL, and aVF. V2, V3, V4, V5 and V6. I, II, III, and V (multi-lead mode)
	Identifies failed lead
Alarms User select	able upper and lower heart rate limits
Input specifications:	able upper and lower near trate limits
	±0.5 mV to ±5 mV
	40 ms to 120 ms (Q to S)
	30 to 300 BPM
Input impedance:	50 to 500 bi W
	>10 MW at 50/60 Hz
	>2.5 MW from dc to 60 Hz
Output specifications:	2.5 MW Holli de to 00 Hz
Frequency response:	
Display:	
	0.05 to 120 Hz
	0.05 to 40 Hz
	0.05 to 25 Hz
	5 to 25 Hz
DDW:	5 10 25 112
	0.05 to 120 Hz
	0.05 to 40 Hz
	0.05 to 25 Hz
	0.05 to 25 Hz
Common mode rejection	90 dB minimum at 50 Hz or 60 Hz
	1000 ±3%
	±3%
Noise	<30 mV RTI (referred to input)
Pacemaker detection/rejection:	······································
	±2 mV to ±700 mV
	0.1 ms to 2 ms
	10 ms to 100 ms
	2 mV (max)
	<0.5 mV/hour with a ±700-mV,
	2-ms pacemaker pulse applied

Temperature (TEMP)

Number of channels	
Input specifications:	
	YSI Series 400 or 700 thermistor (determined by input cable)
Temperature range	0° C to 45° C (32° F to 113° F)
Resolution	±0.1°C
Output specifications:	
Parameters displayed	T1,T2
Gain	121.95 ±1%
Linearity	<1% from 30°C to 42° C
	<1 mV/° C
Error (indepe	endent of source) ±0.1°C for YSI series 400 probes;
	±0.3°C for YSI series 700 probes
Noise	<20 mV from dc to 100 Hz
Alarms	User-selectable upper and lower limits for T1, T2
Pulse Oximetry (SpO ₂)	
Parameters monitored	Arterial oxygen saturation (SpO2) and
	peripheral pulse rate (PPR)
SpO ₂ range	
PPR range	20 - 250 beats per minute

D _a range	
range	20 - 250 beats per minute
	(±3 beats per minute)

SpO ₂ Accuracy Accuracy Accuracy Accuracy Accuracy	Actual accuracy depends on probe. Please reference specifications.
SpO2	
	\pm 3% (50 - 69% SpO ₂) \pm 1 standard deviation
	$PPR \pm 3$ beats per minute
Alarms	User-selectable upper and lower limits for SpO ₂ and PPR
Cardiac Output	

Availability Included in 7020, 7025, and 7030 software packages. Not available in 7015 software package. Input specifications: In-line or bath probe Probe type In-line or bath probe Catheter size 5F, 6F, 7F, 7.5F, and 8F Injectate volume 3, 5, or 10 cc Output specifications: Parameters displayed Parameters displayed Cardiac output, blood temperature, injectate temperature, trial number Range: 0.2 - 15 liters per minute Blood temperature 30 - 42° C Injectate temperature 0 - 30° C Noise <20 mV from dc to 100 Hz Accuracy:
Input specifications: In-line or bath probe Probe type In-line or bath probe Catheter size 5F, 6F, 7F, 7.5F, and 8F Injectate volume 3, 5, or 10 cc Output specifications: Parameters displayed Parameters displayed Cardiac output, blood temperature, injectate temperature, trial number Range: 0.2 - 15 liters per minute Blood temperature 30 - 42° C Injectate temperature 0 - 30° C Noise <20 mV from dc to 100 Hz
Probe type In-line or bath probe Catheter size 5F, 6F, 7F, 7.5F, and 8F Injectate volume 3, 5, or 10 cc Output specifications: Parameters displayed Parameters displayed Cardiac output, blood temperature, injectate temperature, trial number Range: 0.2 - 15 liters per minute Blood temperature 30 - 42° C Injectate temperature 0 - 30° C Noise <20 mV from dc to 100 Hz
Catheter size 5F, 6F, 7F, 7.5F, and 8F Injectate volume 3, 5, or 10 cc Output specifications: 2 Parameters displayed Cardiac output, blood temperature, injectate temperature, trial number Range: 0.2 - 15 liters per minute Blood temperature 30 - 42° C Injectate temperature 0 - 30° C Noise <20 mV from dc to 100 Hz
Catheter size 5F, 6F, 7F, 7.5F, and 8F Injectate volume 3, 5, or 10 cc Output specifications: 2 Parameters displayed Cardiac output, blood temperature, injectate temperature, trial number Range: 0.2 - 15 liters per minute Blood temperature 30 - 42° C Injectate temperature 0 - 30° C Noise <20 mV from dc to 100 Hz
Output specifications: Parameters displayed Cardiac output, blood temperature, injectate temperature, trial number Range: 0.2 - 15 liters per minute Blood temperature 30 - 42° C Injectate temperature 0 - 30° C Noise <20 mV from dc to 100 Hz
Parameters displayed Cardiac output, blood temperature, injectate temperature, trial number Range: 0.2 - 15 liters per minute Blood temperature 30 - 42° C Injectate temperature 0 - 30° C Noise <20 mV from dc to 100 Hz
injectate temperature, trial number Range: Cardiac output 0.2 - 15 liters per minute Blood temperature 30 - 42° C Injectate temperature 0 - 30° C Noise Common and the second common
Range: 0.2 - 15 liters per minute Blood temperature 30 - 42° C Injectate temperature 0 - 30° C Noise <20 mV from dc to 100 Hz
Cardiac output 0.2 - 15 liters per minute Blood temperature 30 - 42° C Injectate temperature 0 - 30° C Noise <20 mV from dc to 100 Hz
Blood temperature 30 - 42° C Injectate temperature 0 - 30° C Noise <20 mV from dc to 100 Hz
Injectate temperature 0 - 30° C Noise <20 mV from dc to 100 Hz Accuracy:
Noise <a><20 mV from dc to 100 Hz Accuracy:
Accuracy:
Cardiac output ±5% (liters of blood/min)
Blood temperature±0.2° C
Injectate temperature ±0.3° C
Frequency response dc to 15 Hz ±2 Hz
Noise <a><20 mV from dc to 100 Hz

Invasive Blood Pressure (BP) Number of channels

Number of channels	
Transducer sites	Arterial (ART), femoral artery (FEM),
	pulmonary artery (PA), central venous (CVP),
	right atrial (RA), left atrial (LA),
	intracranial (ICP), and special (SP)
Transducer requiremen	its:
Excitation voltage	±2.5 Vdc ±0.1%
Transducer output	50 mV/V/cm Hg
Input specifications:	
Range	–25 mmHg to 300 mmHg
Offset	±150 mmHg
Input impedance:	
Common mode	>100 kW at 50/60 Hz
	>100 kW from dc to 60 Hz
Output specifications:	
Gain	
Frequency response	dc to 50 Hz (+0/-3 dB)
	$< \pm 0.1\%$ /°C, and $< \pm 0.1\%$ over any 24 hour period
Zero balance range	±150 mmHg
Zero balance accurac	y ±1 mmHg
	±1 mmHg over 24 hours
Common mode reject	tion >60 dB at 60 Hz
Noise	<5 mVp-p from dc to 30 Hz
Accuracy	±2% or ±1 mmHg, whichever is greater
	(exclusive of transducer)
Alarms	User-selectable upper and lower limits
	for systolic, diastolic, and mean pressures

Also available with NIBP, and EtCO₂



1800 Williamson Ct. • Louisville, Kentucky 40223 USA 800-477-2006 • 502-244-4444 • FAX: 502-244-0369

www.dremed.com