

GE Dash 2000

Product Specifications

Display

Size: 5.8-inch (diagonal)

Type: Monochrome LCD; optional color LCD

Resolution: 320 by 240 pixels

Number of traces: 3

Number of seconds/trace: 3.8 at 25 mm/sec

Sweep speed: 25 mm/sec (with erase bar)

Information window: Displays non-real-time information without obstructing the display of real-time information

Display organization: Prioritized by parameter

Controls

Trim Knob control

Five hard keys: Silence Alarm, Graph Go/Stop, NBP Go/Stop, Function, and Power On/Off

Alarms

Categories: Patient status and system status

Priority: 4 levels – Crisis, Warning, Advisory, Message

Notification: Audible and visual

Setting: Default and individual

Silencing: 1 minute, current alarm only

Pause: 5 minutes in Adult ICU mode, 3 minutes in Neonatal ICU mode, and 5 minute, 15 minute, or permanent pause in OR mode

Volume: Default 70%, 70 dB measured at 1 meter

ECG

Standard leads available: I, II, III, V, aVR, aVL, and aVF

Leads analyzed simultaneously: I, II, III, and V (multi-lead mode)

Lead fail: identifies failed lead

Alarms: User-selectable upper and lower heart rate limits

Input specifications

Voltage range: ± 0.5 mV to ± 5 mV with size 2x or 4x below 1 mV and with QRS width Adult ICU 70 to 120 ms Neonatal ICU 40 to 80 ms

Signal width: 40 ms to 120 ms (Q to S)

Heart rate range: 30 to 300 bpm

Input impedance:

Common mode: > 10 M* at 50/60 Hz

Differential: > 2.5 M* from dc to 60 Hz

Common mode rejection: 90 dB minimum at 50 or 60 Hz

Output specifications

Frequency response:

Display:

Diagnostic: 0.05 to 40 Hz

Monitoring: 0.05 to 40 Hz

Moderate: 0.05 to 25 Hz

Maximum: 5 to 25 Hz

Paper:

Recorder:

Diagnostic: 0.05 to 100 Hz

Monitoring: 0.05 to 40 Hz

Moderate: 0.05 to 25 Hz

Maximum: 0.05 to 25 Hz

Noise: <30 μ V RTI (referred to input)

Pacemaker detection/rejection

Input voltage range: ± 2 mV to ± 700 mV

Input pulse width: 0.1 to to 2 ms

Rise time: 10 ms to 100 μ s

Over/under shoot: 2 mV (max.) with Diagnostic or Monitor filter setting and size 1x or 0.5x

Baseline drift: <0.5 mV/hour with a ± 700 -mV, 2-ms pacemaker pulse applied

Respiration

Measurement technique: Impedance variation detection

Range:

Respiration rate: 0-200 breaths per minute

Base impedance: 100-1000 * at 52.6 kHz

Detection sensitivity: 0.4 to 10 * variation

Waveform display bandwidth: 0.1 to 1.8 Hz (-3dB)

Alarms: User-selectable upper and lower respiration rate limits and apnea limit

Temperature

Number of channels: 1

Input specifications

Probe type: YSI Series 400

Temperature range: 0°C to 45°C (32°F to 113°F)

Resolution: $\pm 0.1^{\circ}\text{C}$

Output specifications

Parameters displayed: TP

Accuracy: (independent of source) $\pm 0.1^{\circ}\text{C}$

Alarms: User-selectable upper and lower limits

Noninvasive Blood Pressure

Measurement technique: Oscillometric

Displayed parameters: Systolic, diastolic, and mean pressures, pulse rate, time of last measurement

Measurement modes: Manual, auto, and stat in Adult ICU and OR modes; manual and auto in neonatal mode Heart rate detection: 30 to 300 beats per minute

Total cycle time: 20 to 40 seconds typical (dependent on heart rate and motion artifact) Automatic cycle times: 0 to 24 hours

Auto zero: Zero pressure reference prior to each cuff inflation

Tubing length: 12 feet adult, 8 feet neonatal

Automatic cuff deflation: Cycle time exceeding 3 minutes (90 seconds neonatal), power off, or cuff pressure exceeds 300 mmHg (+10%) adult, 150 mmHg (+10%) neonatal

Cuff sizes:

Disposable: Large adult, adult, small adult, pediatric, small pediatric, and infant

Reusable: Thigh, large adult, adult, child, and infant

Alarms: User-selectable upper and lower limits for systolic, diastolic, and mean pressures

Pulse Oximetry

Parameters monitored: Arterial oxygen saturation (SpO₂) and peripheral pulse rate (PPR)

SpO₂ range: 50 - 100%

PPR range: 20 - 250 beats per minute ($\pm 1/2$ 3 beats per minute)

Accuracy: Actual accuracy depends on probe. Please reference manufacturer's specifications.

SpO₂: $\pm 2\%$ (70 - 100% SpO₂) ± 1 standard deviation $\pm 3\%$ (50 - 69% SpO₂) ± 1 standard deviation

PPR: ± 3 beats per minute

Alarms: User-selectable upper and lower limits for SpO₂ and PPR

Paper Recorder (Option)

Method: Thermal dot array

Horizontal resolution: 480 dots/in @ 25 mm/sec

Vertical resolution: 200 dots/in

Number of waveform channels: three

Paper width: 50 mm (1.97 in)

Paper length: 25 m (95 ft)

Paper speed: 0.1, 0.5, 1, 5, 10, 12.5, 25, and 50 mm/sec

Analog Output ECG

Gain: 1 V/mV $\pm 10\%$

DC offset: ± 100 mV (max)

Noise: <5 mV peak to peak dc to 300 Hz

Frequency response: 0.05 Hz to 100 Hz -0/+7 Hz

Internal Battery

Battery type: Nickel-cadmium (Ni-Cd)

Charge time: 1 to 4 hrs

Run time: 3 to 4 hrs

Environmental Specifications

Power requirements: 90-264 VAC 50/60 Hz 500 mA

Power consumption: 40 W (fully loaded)

Cooling: convection

Heat dissipation: 135 Btu/hr (max)

Operating Conditions

Ambient temperature: 10 to 40°C (50 to 104°F)

Relative humidity: 5 - 95% @ 40°C

Storage Conditions

(do not exceed):

Temperature: -25 to 70°C (-13 to 156°F)

Relative humidity: 15 to 95%

Physical Specifications

Height: 22 cm (8.5 in)

Depth: 20 cm (8 in)

Width: 27 cm (10.5 in)

Weight: 5.5 kg (12 lb) with all options