

EKGCard Specifications

EKGCard™ Electrocardiograph Cable Hub Specifications

Hub Weight: 280 - 300 grams (9.9 - 10.6 oz.) depending on cable options

Hub Dimensions: 85 x 91 x 20 mm

Patient Leads Length: 1 meter

PC Connection Length: 3 meter cable, DB9 female connector

Patient Leads: 6 Lead Cable (4 patient leads), 12 Lead Cable (10 patient leads)

Case Material: ABS Plastic

Electrode Connections: 4 mm "Banana plug" with "tab" or "Snap-On" connectors

Electrode Labeling: Abbreviations and colors to comply with either IEC or AAMI standards

Display and Operating Console: Dependent on PC (supplied by user)

Gain/Sensitivity: 5, 10, 20 mm/mV

Input Range: +/- 6mV

Acquisition sample rate: 1000 samples per second (compressed to 500Hz with peak picking and averaging algorithm)

Frequency response: 0.05 to 175Hz +/- 3dB

Defibrillator protection: Patient leads are isolated from system and operator, with 4kV protection.

Common Mode Rejection: -60dB (minimum)

Safety Standards: Complies with AAMI EC11, IEC 601-1, IEC 601-1-1, EC 601-1-2, and IEC 601-2-25

Leads Off Indicators: Connection status for each lead is shown on "ECG Real Time" screen.

Power Source: Can be powered by the PC Serial port control lines in most cases, depending on the PC being used. Can draw extra power if necessary from a PC PS/2 port or an external mains adapter.

Supply Voltage: 4 - 16V DC

Supply Current: <17mA DC

Permanent Filters: High Pass: 0.05Hz 1st order; Low Pass: 170Hz 1st order; Baseline Wander: Baseline reset by adaptive zeroing algorithm.
Notch filter (Mains Noise Rejection)
50Hz 4th order Butterworth 49.1Hz - 50.9Hz; 60Hz 4th order Butterworth, 59.1Hz - 60.9Hz.

Low pass (Muscle Artifact Filter): 35Hz 4th order

Report Capabilities: User selectable Report formats

Environmental Conditions: Operating Temperature 0°C - 40°C; Storage Temperature 0°C - 65°C; Humidity 10% - 85% (non-condensing)

EKGCard™ PC Card Specifications

PC Card Size: 85.6 x 54 x 5 mm

PC Card Connection Cable Length: 305 mm

Cable Connector: 9-Pin D Shell Male

Environmental Conditions: Operating Temperature 0°C - 40°C; Storage Temperature 0°C - 65°C; Humidity 10% - 85% (non-condensing)

Power Consumption: Standby 5mA or 25 mW; Typical 13mA or 65mW.

Interface Standards: PC Card (PCMCIA) Type II Interface; Asynchronous RS-232 Serial Communication; Up to 115.2 Kbps Bate Rate.

Operating System Support: Windows 95/98

Compatibility: Windows COM port

Certification: FCC: Part 15, Class A; CE: EN55022; C-TICK: s.182