Nicolet[™] v44 Amplifier

Specifications

v44 Amplifier

System Configurations Sleep, EEG, ICU monitoring and LTM OR and non-OR applications Cart mount and wall mount options Analog/Digital Converter 16 bits ADC Resolution Voltage = 0.153 µV DC Offset Tolerance ± 900 mV Channels (AC Inputs) 32 isolated EEG, 9 configurable as bipolar (24-32) Maximum Input Range ± 5 mV Bandwidth 0.053 - 500 Hz Noise < 1.5µV pk-pk @ 0.1 - 100 Hz (except channels 31, 32 and OR channels < 2uV p-p @ 0.1 - 100 Hz) Input Impedance > 100 M Ω (common mode) CMRR at Patient Inputs > 115 dB @ 50 – 60 Hz, with active patient ground connected (except channels 31, 32 and OR channels > 100 dB @ 50-60 Hz with active patient ground connected) Channel Crosstalk < -40 dB Amplifier Sample Rate (under software control) 125, 250, 500, 1000, 2000 Calibration Square wave, 1, 5, 10, 20 sec period, 10, 50, 100, 1000 µV amplitude Input Bias Current < 5 nA Anti-Aliasing Filter Cut Off Frequency 500 Hz Differential Input Impedance 40 MΩ Interface to Amplifier Ethernet Channel Hardware Gain 410 Deblock Yes Integrated SpO₂ Channels (DC Inputs) 12 non-isolated - Analog/Digital Converter 16 bits - Maximum Input Range ± 5V - ADC Resolution 153 µV - Bandwidth DC – 120 Hz Additional Ports - RS232 serial ports (2) Auxiliary I/O - Panasonic Camera Control port on amplifier - Isolated SpO₂ - Isolated patient event button - Microphone input - C64/C128 interface - Synchronized video input - Picture-in-picture input (optional) - Yolk input - Photic output - Calibration output



v44 requires one of the following:

- Clinical headbox with built in impedance and display
- Clinical headbox with head cap adapter and built in impedance and display
- OR headbox

Specifications, design options and terms quoted are subject to change without notice Advanced Technology Patent Pending

Nicolet

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Compliance/Regulatory Standards

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Designed, tested and manufactured to meet the following domestic (USA), Canadian, European and International Standards: UL 60601-1 Medical Electrical Safety Standard (USA) CAN/CSA-C22.2 no. 601.1-M90 Medical Electrical Safety Standard (Canada) EN/IEC 60601-1 Medical Electrical Safety of Medical Equipment (International and Europe) IEC 60601-2-26 Particular safety of electroencephalographs equipment EN 60601-1-2 Collateral safety standard for EMC European Community (CE Mark) Class 2B Medical Device Directive (MDD) product Patient Isolation BF



