

Continuous EEG AE-918P



Brain Activity Monitoring at a Glance

- Up to 8-channels of EEG for continuous monitoring
- Includes DSA, CSA and SEF trends
- Amplitude-integrated EEG (aEEG) capability for neonatal brain state monitoring
- Smart screen builder provides automatic screen configuration
- Automatic impedance check for reliable monitoring
- SEF (Spectral Edge Frequency) and TP (Total Power) alarm limits

Specifications

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AE-918P

DISPLAYED MEASUREMENTS

Parameters: 8-channel EEG, Quantitative EEG: aEEG*, SEF, MDF, PPF, TP, CSA, DSA, %Delta, %Theta, %Alpha, %Beta, %Gamma, Abs Delta, Abs Theta, Abs Gamma
Waveform display on main screen: G9: 8 channels
BSM-6000: 2 channels

Mode of Operation: Continuous operation

ELECTRICAL PERFORMANCE

Input Impedance: 15 M ohm at 10Hz

Maximum Undistorted input: $\geq \pm 2$ mV

Polarization Voltage: $\geq \pm 700$ mV

Calibration Check: Step square 50 uV

Impedance Check: All inputs with Screen

Electrode impedance Check: > 10 k Ω within $\pm 20\%$

Common-Mode Rejection Ratio (CMRR): 110 dB or more (in isolation mode), 60 dB or more (in balance mode)

Noise Level: < 3 uV p-p (0.53 to 30 Hz)

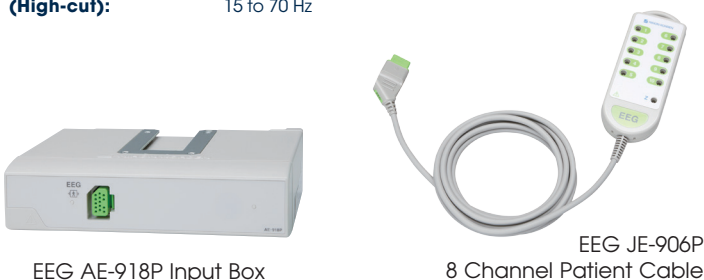
Frequency Response: 0.08 to 70 Hz

Frequency Characteristics: High range: 70 Hz $\pm 20\%$ at 70% amplitude (-3 dB)
Low range: 0.08 Hz $\pm 20\%$ or time constant 2 s $\pm 20\%$ at 70% amplitude (-3 dB)

AC Filter: Rejection ratio: > 26 dB

High-pass Filter (Low-cut): 0.08 to 5.3 Hz

Low-pass Filter (High-cut): 15 to 70 Hz



AC Filter: 50 to 60 Hz (rejection ratio 1/20)

ECG Filter: None

Sensitivity: OFF, 1 to 200 uV/mm (14 steps)

EEG Sensitivity: 10 uV/mm within $\pm 5\%$

A-D Conversion: 16 bits

Sampling: All channels, 200 Hz (A-D Conversion: 4kHz)

Trend Parameter: DSA, aEEG, FFT power, FFT power ratio

Number of Trends: 8

Number of Windows: 1

Power: $+12V \pm 5\%$ 500mA or less, $+5V \pm 5\%$ 100 mA or less

ENVIRONMENTAL CHARACTERISTICS

Operating Environment: Temperature: 10 to 40°C, Humidity: 30 to 90%
Atmospheric Pressure: 700 to 1060 hPa

Degree of protection against harmful ingress of water: IPX0

Type of protection against electrical shock: CLASS I EQUIPMENT

Degree of protection against electrical shock: Defibrillator-proof type BF applied part

DIMENSIONS AND WEIGHT

Dimensions: 170 W x 44 H x 152 D (mm) (excluding protruding parts)

Weight: 0.8 kg (not including attachments, options)



BSM-6000 series monitor using a AE-918 Pod with aEEG* review window

*not available on BSM-6300

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