

ELECTROMYOGRAPH

The Electromyograph records electrical activity of the muscles.

EEC's portable EMG system is ideal for the study of muscle activity in research and evaluation therapy



The Electromyograph has a high common mode rejection-ratio and low-noise amplifier. Both needle and surface electrodes are provided. The sensitivity, time-constant and bandwidth are adjustable. The EMG Panel Meter gives indication of average/peak value of the EMG signal. The Notch-filter cuts off 50 Hz mains disturbance. A Peak-Hold switch is also provided. Using optional nerve/muscle stimulators and oscilloscope, nerve-conduction velocity can also be calculated. The EMG wave form can be displayed on a Oscilloscope or recorded by a Tape recorder. Auxiliary attachments like 1, 2 or 4 channel Oscilloscope, stimulator and external loud-speaker can also be supplied as per user's requirements.

Specifications :

Input : Differential, isolated, with input impedance greater than 10 M.

Common Mode Rejection Ratio : Greater than 80db with 10K source impedance.

Gain: Adjustable by 6-way Switch with settings :- 1K, 2K, 5K, 10K, 20K and 50K

Fine gain Control: The gain in each setting is adjustable 1 : 0.5, by a potentiometer.

Frequency Response:- 0.1 to 10 KHz. - Noise output:- Less than 10 m V.

Bandwidth Limiter :- Hi-cut switch limits upper cut-off to 1Khz;

Filter Facility:- Notch-Filter to cut-off 50/60 Hz mains disturbance.

Time Constant:- Adjustable in the 4 steps :- 0.5, 1., 2, and 5 seconds.

Peak- Hold facility: If this switch is pressed, the output is held at peak-to-peak value.

Reset Facility : Provision to reset the integrator/hold circuit to initial zero value.

Outputs : (1) EMG socket for connection to oscilloscope, tape-recorder, or audio monitor. (2) EMG Panel Meter : This gives the Average value or Peak to Peak

Power Source: 220 or 110 volts/50Hz mains supply ; or alternately, 2 Nos:

9 volt alkaline batteries (Duracell MN1604 6LR61 or equivalent)

Size/Weight: 23 X 20 x 12 cms / 3 kgs.

Manufactured by:-



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EEC's Product Range :- Biomonitor * Ultrasonic Foetal Monitor * Apnea Monitor * Vascular / Blood Flow Doppler * Electronic Stethoscopes * Electronic Blood Pressure * Pulse / Heart Rate Monitors * Cardiac Fibrillator * Tele-Thermometer * Syringe Infusion Pump * Algometer * Electromyograph * Phonocardiograph * Animal Activity Monitor * Neonatal Monitors