

Model 1800 Microelectrode AC Amplifier

The Model 1800



Microelectrode AC Amplifier is a two-channel, differential amplifier equipped with Head Stage probes and is intended for extracellular recording and/or stimulating with high impedance metal microelectrodes in research and teaching applications. Extracellular neurophysiological recordings with high impedance microelectrodes can easily be done from excitable tissues such as nerve and muscle. The instrument is not intended for clinical measurements in human subjects.

Special Features:

Mode Selection: This switch allows the user to select one of three Modes for each channel of the amplifier: Impedance Check (IMP), Record (REC), or Stimulate (STIM). During Impedance Check, an internal 1 kHz oscillator automatically applies a calibrated current through the electrode and the amplifier monitors the voltage in order to check impedance.

Capacity: This control is used to neutralize the capacitance during electrode impedance check. In record mode, the instrument amplifies the differential input signal by an amount selected by the Gain switch. In the Stimulate mode, a stimulus is applied directly to the electrode through the Stimulus connector, and the amplifier monitors the current passing through the electrode.

Gain Selection: In the Record mode, the gain of each amplifier may be independently set by adjusting the Gain switch to x100, x1000, or x10,000.

- The Model 1800 ships complete with:
- . Operator's manual and Rack mount hardware
 - . Two [Headstages](#) (Product #700500)
 - . Head stage input connector cables

Model 1800 Microelectrode AC Amplifier Headstage The Head stage for the Model 1800 is small and convenient. It is 0.535 inches (1.395 cm) in diameter and 4 inches (10.2 cm) long. It includes a 0.187 inch (4.7 mm) diameter mounting rod and 5 feet (1.5 m) of Superflex silicone jacketed cable which resists mild alkalis, acids and solvents. It has 0.062 inch female pin connectors to attach to your sensors.



Note: A-M Systems Instruments are **NOT** approved for use with Human Subjects in either a Clinical or Research Environment.



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