

## AC-916 Bioamplifier Plug-in

The AC-916 Bioamplifier is a SYSTEM 2000 plug-in module for EEG, ECG, EMG, and other low-level biopotential signals. It features exceptionally low noise, a wide gain range, and sharp cutoff bandpass filters. Up to sixteen AC-916 modules can be installed in one CC-2000 card-cage for rack mounting.

The AC-916 features an instrumentation amplifier differential front-end, for the lowest noise and best common-mode rejection. Gain is adjustable from 20X - 100,000X in twelve steps, making it possible to resolve signals as small as a few microvolts in amplitude.

The individual channel inputs and outputs are connected to multi-pin connectors on the rear panel of the CC-2000 card-cage for convenient cable connections. Pre-wired input cables are available which simplify input electrode connections. The CC-2000 card-cage output connector is directly compatible with the PC-based WinDaq 16-channel data acquisition system, which is available as an option.

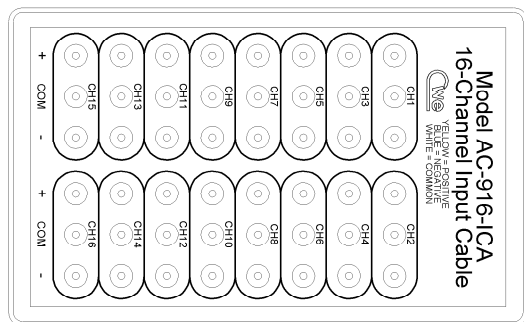
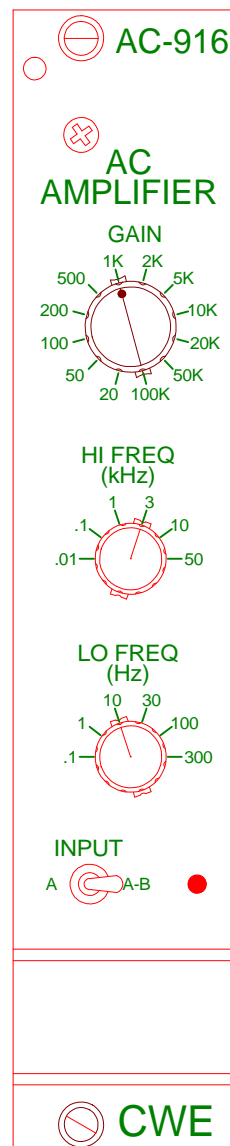
### Specifications: (Note 1)

Input type	Differential or single-ended, switchable
Input range for full-scale output	$\pm 100\mu\text{V}$ - 0.5V
Input impedance	$>10,000\text{M}\Omega$
Noise, referred to input	$<5\mu\text{V}$ P-P, wideband
Common Mode Rejection	$>95\text{dB}$
Gain range	20X - 100,000X, 12-positions
Low-pass filter	10Hz - 50kHz, 6-positions, -12dB/octave
High-pass filter	0.1Hz - 300Hz, 6-positions, -12dB/octave
Power requirements	$\pm 12\text{VDC}$ @20mA
Dimensions	0.98W x 5.25H inches (25W x 133H mm)

Note 1: Not to be used for human life support applications.

### Ordering Information:

Model	Description	Applications
AC-916	AC Bioamplifier plug-in module	Multi-channel EEG, EMG, single-unit, etc.
CC-2000	Card-cage w/ power supply	Holds up to sixteen plug-ins
ICA-916	Input cable assembly w/ pin-jacks	Convenient input connections to all channels



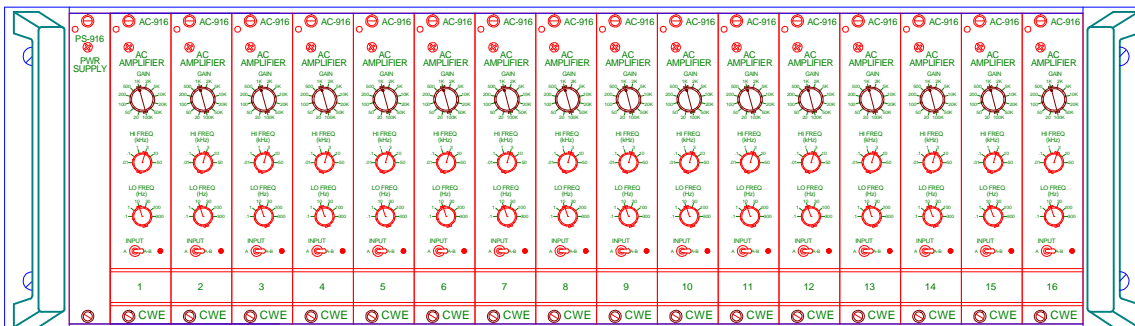
## ICA-916 Input Cable

The ICA-916 Input Cable provides convenient 2mm (0.080") pin-jack input connections to all sixteen channels installed in a CC-2000 card-cage. The nine-foot (2.7m) cable is terminated with a 50-pin D-SUB connector compatible with the CC-2000 input connector.

Dimensions: 3.5 x 5.5 x 1.2 in.

## CC-2000 Sixteen Module Card-Cage

This is the rack-mount or benchtop card-cage that is the foundation of any SYSTEM 2000 setup. It fits into a standard 19" equipment rack, and occupies 3U (5.25") height. The



CC-2000 Card-cage shown with sixteen AC-916 Bioamplifier plug-ins installed

card-cage holds up to sixteen instrumentation modules of your choice. DC power for the modules is introduced via a DIN connector accessible from the rear of the chassis.

Inputs are made via a 50-pin connector on the rear of the card-cage. Pre-wired input cables are available as an option. Channel outputs are provided by BNC jacks on the rear panel, and via a 37-pin D-SUB connector. This output connector is also directly compatible with the Dataq Instruments WinDAQ data acquisition system. A handsome molded desktop enclosure (Model DTE-1000) is available as an option.

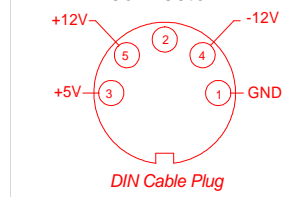
### Standard Features:

- Holds sixteen modules
- Shielded all-aluminum enclosure
- Standard CC-2000 comes with universal power supply

### Options:

- DTE-1000 Desktop enclosure
- ICA-916 Input cable assembly (w/ pin jacks)
- ICA-916/I Isolation amplifier input cable

Power supply to card-cage connector

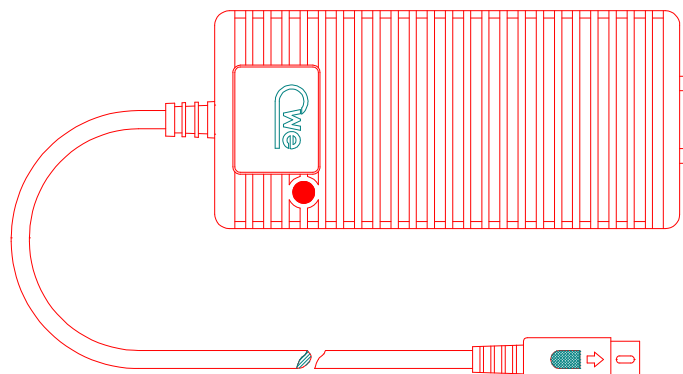


## SYSTEM 2000 Power Supply

This is the standard power supply furnished with the CC-2000 card-cage. It is a universal input supply that accepts 95-240VAC, and features a standard detachable power cord. The output cable is 6' long and terminated with a DIN plug which mates with a jack on the rear panel of the CC-2000 card-cage.

### Features and Specifications:

Input range . . . . . 95-240VAC, 50/60Hz  
Max power consumption . . 1A @ 115V, 0.5A @ 230V  
Output . . . . . +5V @ 2A, +12V @ 1.5A, -12 @ 0.3A  
Dimensions . . . . . 6.5L x 3W x 2D inches  
Agency approvals and markings . . . UL, CSA, VDE



**Note:** Be sure to indicate the country where the SYSTEM 2000 instrumentation will be used. We will then be able to provide the correct power supply cord.