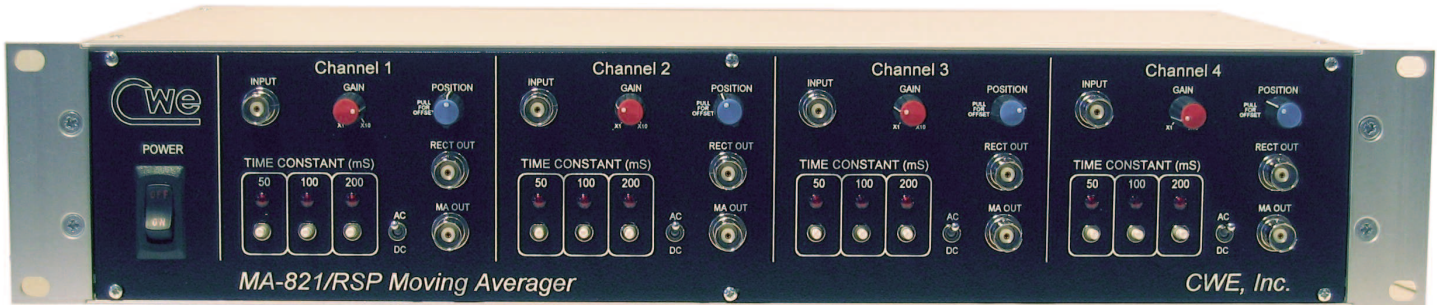


MA-821/RSP Four-Channel Rack-Mount Moving Averager

Pushbutton Time-Constant selection for EMG, ENG processing



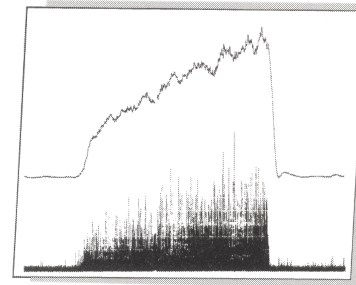
The *moving average* is the preferred method for quantifying multi-unit nerve or muscle electrical activity. The MA-821/RSP Moving Averager provides four independent channels of signal processing, each with a precision full-wave rectified output as well as the 3rd-order Paynter filter (Moving Average) output. A pushbutton selects among any three time constants for each channel. Interchangeable Time Constant Modules are used to program the Moving Average filters. The standard values are 50, 100, and 200mS, which are the most commonly used time constants for processing EMG and ENG signals. Any other values within the range 10 - 400mS can also be supplied at no extra cost.

Besides pushbutton time constant selection, the MA-821/RSP also has front-panel controls for signal gain and position (DC offset). These controls facilitate setup of the recorder or data acquisition system.

The MA-821/RSP is housed in a rack-mountable enclosure occupying 3U (3½") of rack space. All inputs and outputs are

located on both the front and rear panels, for convenient cabling to other instruments.

This instrument provides all the features you need for quantifying multi-unit EMG and ENG activity. A range of compatible accessories is also available, including low-noise bioamplifiers.



Lower trace: Rectified Canine Phrenic nerve
Upper trace: Moving Average

SPECIFICATIONS :

Input type and impedance	Single-ended, 1MΩ impedance
Input voltage range	±10V
Gain range	1-10X
Coupling	AC or DC, switchable
Offset adjustment (Position) range, activated with push/pull switch	±2.5V
Moving Average output	±10V, 10mA max
Full-wave Rectified output	±10V, 10mA max
Moving Average function	3rd-order Paynter filter
Moving Average Time Constants	50, 100, and 200mS standard
Input and output connectors	BNC jack
Power requirements	120/240VAC 50/60Hz, switch selectable
Dimensions	17.2W x 3.5H x 12.5D inches (44 x 9 x 32cm)

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

ORDERING INFORMATION :

<u>Part No.</u>	<u>Model</u>	<u>Description</u>	<u>Applications</u>
08-08000	MA-821/RSP	Four-channel rack mount Moving Averager	Multi-channel EMG, ENG processing
09-03010	BMA-400	4-Channel AC/DC Bioamplifier	
08-07110	MA-821-TCM	Time Constant Module, specify value	
17-20000	SB-1	EKG Blanker	For removing cardiac artifacts

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