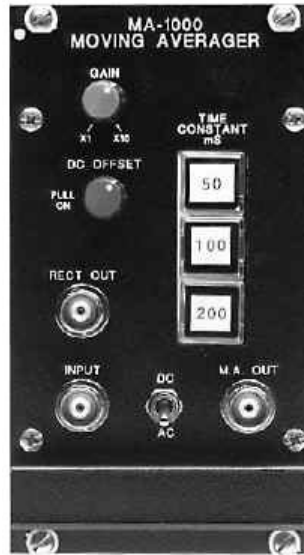


MA-1000 Moving Averager



- For EMG and ENG measurements
- Uses easily replaceable time constant modules to implement moving average
- Comes standard with time constants of 50, 100, and 200mS, but any values between 10 and 500mS are available

The MA-1000 consists of an adjustable-gain input buffer, a precision full-wave rectifier, and a moving averager circuit, and is used for the accurate quantification of electromyogram (EMG) and electroencephalogram (ENG) signals. The moving averaging circuit is a 3rd order Paynter low-pass filter that creates a contoured or smoothed envelope around the rectified signal, with selectable degrees of smoothing. Smoothing is accomplished by the selection of a time constant, conveniently implemented by front panel push-button switches.

Specifications:*			
Input impedance	1M Ω single-ended	Moving average output voltage range	0 to 10V
Input voltage range	\pm 10V	Output impedance, any output	<10 Ω
Input coupling	AC or DC, switchable	Input/output connectors	BNC
Rectifier offset and asymmetry	\pm 5mV max	Power requirements	\pm 12VDC @ 50mA
Frequency response	DC to 25kHz	Dimensions	2.5" \times 5.05" \times 9.5"
Rectified output voltage range	0 to 10V		
*The MA-1000 IS NOT designed for patient-connected measurements.			

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