Model EMF16 16-Channel
EMF Data Acquisition System
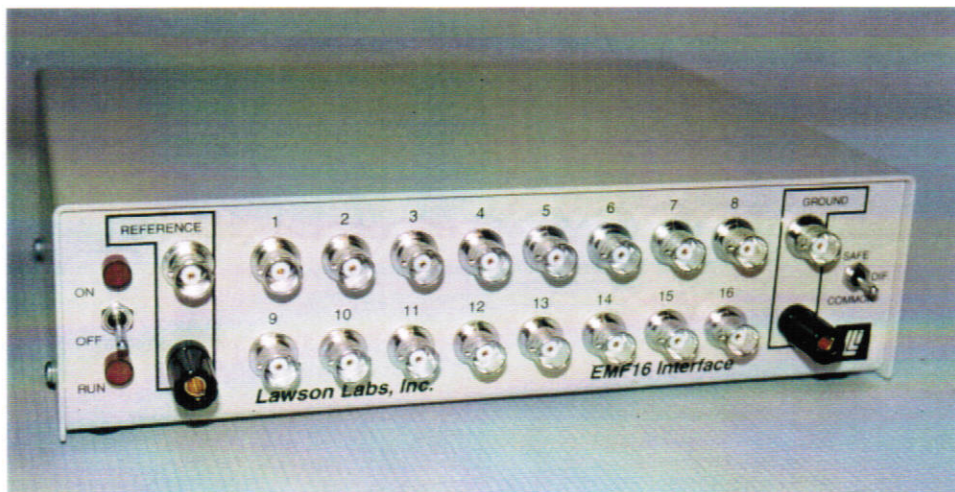
The EMF16 is a high-resolution, high input impedance, data acquisition system for electrochemistry applications. It connects to a PC serial port for presentation and storage of EMF data. The bundled software is written by electrochemists for electrochemistry. It allows up to 16 channels of data to be scanned and displayed and saved to the disk in real time.

The EMF16 is built around our proven 24-bit A/D system. The DC specifications are much better than those of most pH meters. Linearity is 0.002% of full scale, input impedance is 10^{13} ohms, reproducibility is better than one part per million.

BNC connectors are provided for the 16 buffered inputs and for the buffered reference electrode. All inputs are protected against overvoltage. Three measuring modes are selectable via a front-panel switch. Further flexibility is provided through software configuration.

The EMF16 is supplied as a complete system including the interface box and Windows software, serial cable, power supply and comprehensive manual. A 10^{15} ohm input impedance option is available. Contact the factory for current pricing.

Size:	9" wide x 8" deep x 2.5" high
Shipping weight:	7 pounds
Availability:	Stock to 3 weeks
Price:	$1995.00

EMF16 SPECIFICATIONS

A/D TYPE:	24-bit delta-sigma converter with microcontroller supervisor and optical isolation
MONOTONICITY:	23 bits
LINEARITY:	+/-0.002% of full scale
DIFFERENTIAL INPUT RANGE:	+/-5 volts
DC COMMON MODE RANGE:	+/-6.5 volts
DC COMMON MODE REJECTION:	-100 dB typical
INPUT PROTECTION:	Will withstand up to 40 volts continuous overvoltage
INPUT IMPEDANCE:	10^{13} ohms typical
POWER REQUIREMENT:	11 to 48 VDC, regulated or unregulated
INTERFACE:	RS-232, compatible with USB adapter cables
OTHER SOFTWARE:	General-purpose acquisition and graphing software for Win98 and later available for free download at our web site

OPTIONS:		
	220 VAC power supply	no charge
	10^{15} ohm input impedance	$ 200
	8-channel unit with fully differential inputs for combination electrodes	$ 200
	Expanded systems - we can increase the channel count to 32, 48 or 64. Contact factory for pricing.	

L-EMF DAC Software Version 3.0 is now shipped with each EMF16

Features include:

* Flexible acquisition rates and filtering
* Auto-scaling graphics
* Self-calibration with easy offset voltage suppression
* Full-speed operation, even on slower computers
* Pause Control
* Test Mode
* Pop-up Help
* Enhanced interoperability
* Win95 through XP operating system compatibility