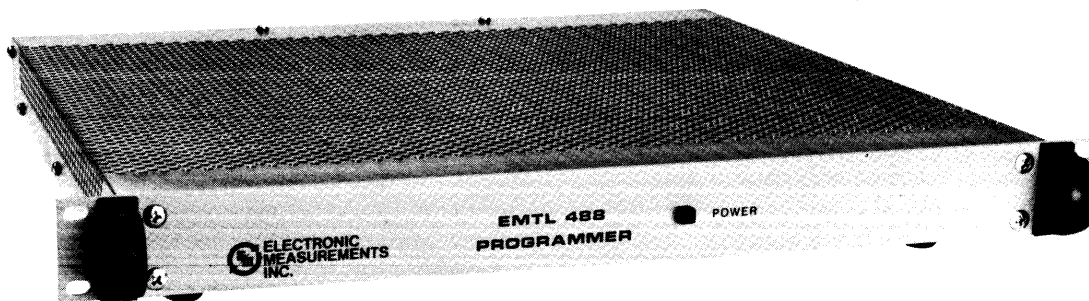
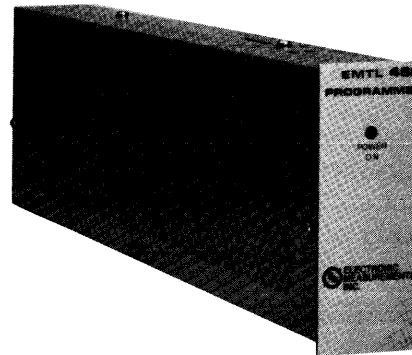
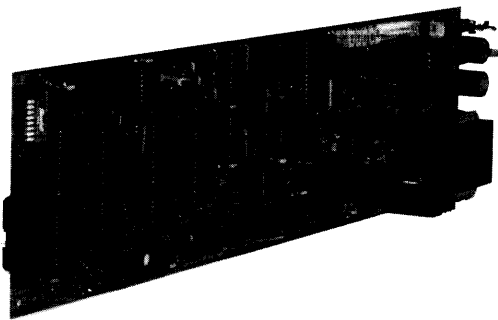


EMTL-488

IEEE-488 Bus Interface Digital Programmer

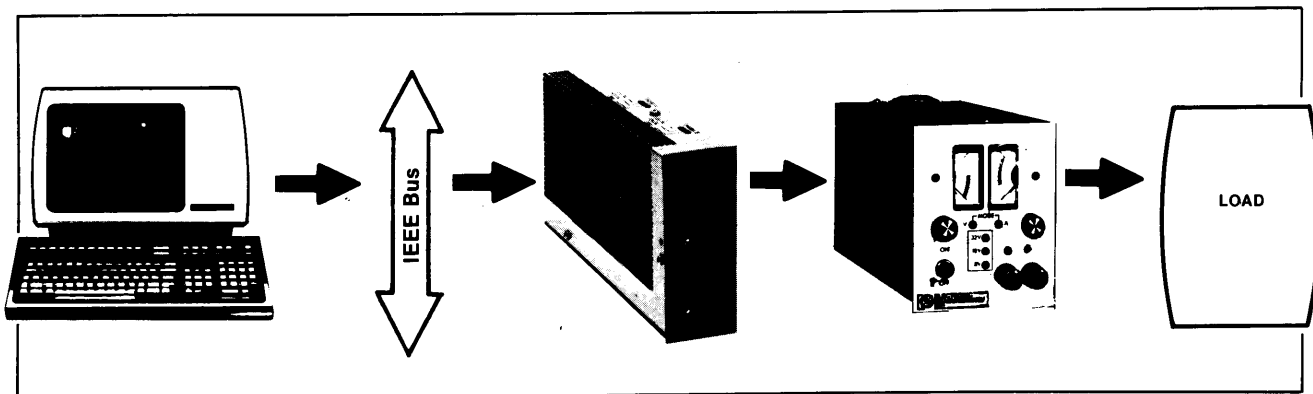


**ELECTRONIC
MEASUREMENTS
INC.**

EMTL-488

Talker/Listener

Bus Interface



The new EMTL-488 is a dual channel, digital to analog, talker/listener programmer. It has been designed for use with the IEEE-488 format of byte serial, bit parallel transfer which in normal operation will remotely control the parameters of (E/M) power supplies, and certain other supplies, that utilize unipolar analog programming.

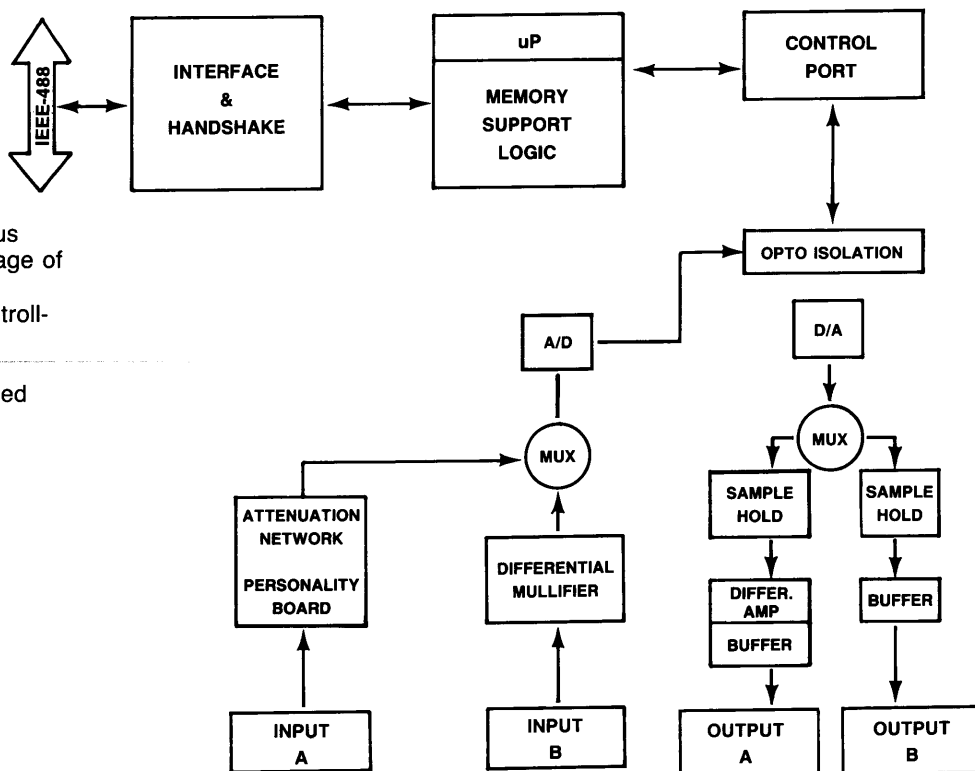
The EMTL-488 comes in three versions: a dual channel, eighth rack model that will control the voltage and current of a single power supply that can be mounted singularly or into a rack adapter allowing for the packaging of 8 units in a 19 inch relay rack; a full 19 inch rack mountable model that contains three dual channels offering the control of both current and voltage for three (3) power supplies, and a dual channel programming card designed to be built into the end-users system. Zero offset and adjust are provided to trim the controlled power supply's output. The digital inputs are buffered and compatible with TTL levels, while the outputs are open collector devices.

APPLICATIONS

- Automatic test equipment
- Environmental testing
- Motor controls
- Process controls

MAJOR FEATURES

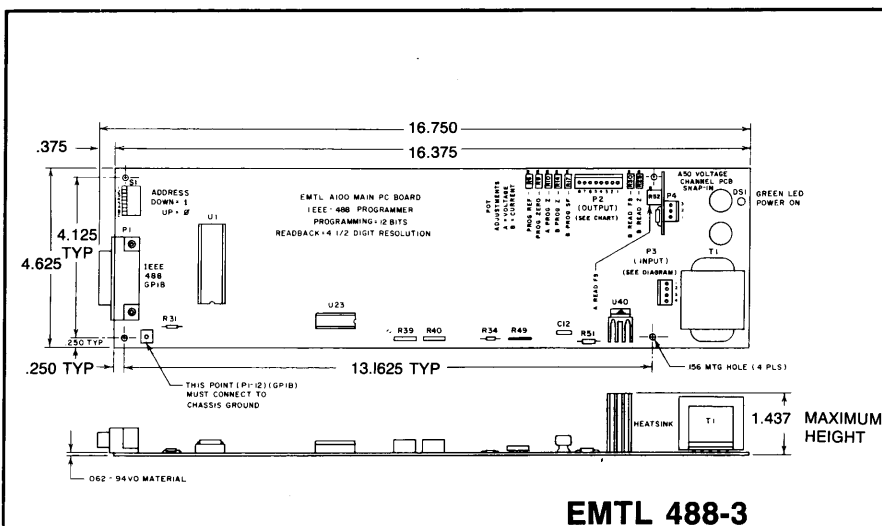
- Economical interface with GPIB Bus
- Catalog units to match output voltage of any E/M power supply
- Two independent channels for controlling voltage & current.
- 12 bit resolution
- BUS and Processor optically isolated from load.
- 3 packaging concepts
- 5 year warranty



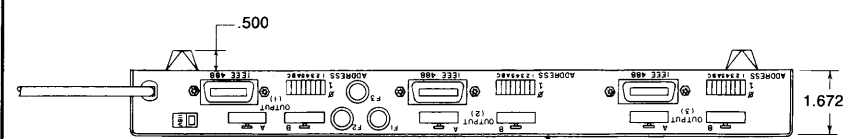
EMTL - 488 Specifications

INPUT			
AC Voltage Power Data Format Functions	95-130 VAC, or, 190-260 VAC, 1Ø, 47-63hz 15 watts per card ASC II / ISO-7 AH1 - acceptor handshake SH1 - source handshake L4 - base listener T6 - base talker, Serial poll		
OUTPUT			
Channel A B Talker Function Zero Adjust Output Impedence Programing Time Programing Range Data Transfer Time Transfer Format Linearity Error Polarity	0-5 volts @ .024% resolution (12 bits) 0-100 millivolts @ .024% resolution (12 bits) two channel digitized analog response of the controlled power-supply to the programmed bus command. Four digit resolution. ± 10 millivolts Channel A less than .05 ohms Channel B less than .05 ohms 1500 micro seconds from execute command 00.00% to 99.99% of output voltage 2K bytes per second byte serial / bit parallel ± 1/2 L.S.B. Unipolar		
OPERATING			
Temperature Range Temperature Coefficients Isolation Cooling Digital Input	0-40°C operating; -25°C to +85°C storage Current channel 80ppm / °C Typical Voltage channel 50 PPM/°C Typical Channels to interface - 1000 vdc Channel to channel - 5 volts Convection GPIB input/output connections are made at rear of unit and conforms to IEEE-488/1978		
MODEL NUMBERS			
Part Number	Rack Size	Output	Unit Price*
EMTL-488-1-XX	1/8th	Dual channel	\$ 645.00
EMTL-488-2-XX-XX-XX	Full	3 dual channel	\$1895.00
EMTL-488-3-XX	—	Dual channel, programing card	\$ 495.00
RA-4 kit	Full	Rack adapter to mount up to 8 units into a standard 5¼" relay rack	\$ 85.00
XX = dc output voltage of power supply to be controlled			

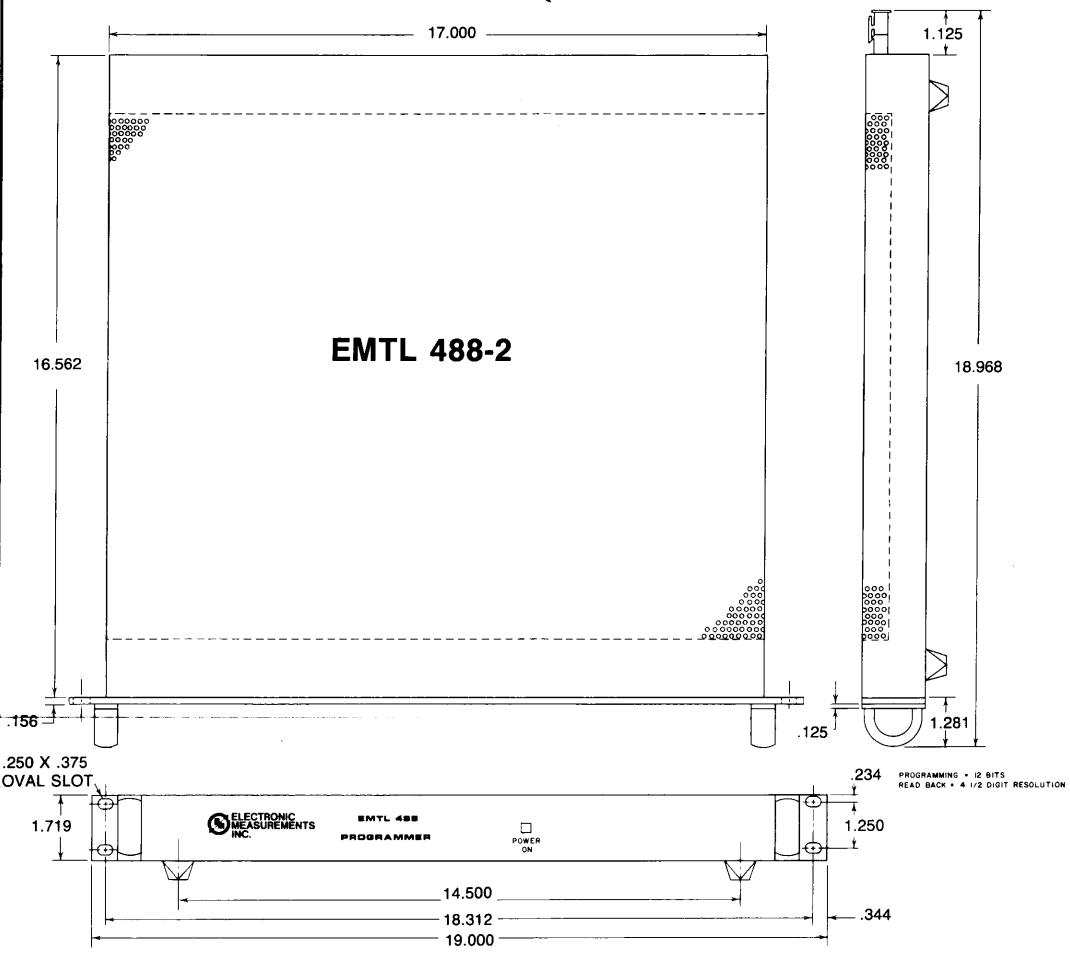
*Subject to change without notice.



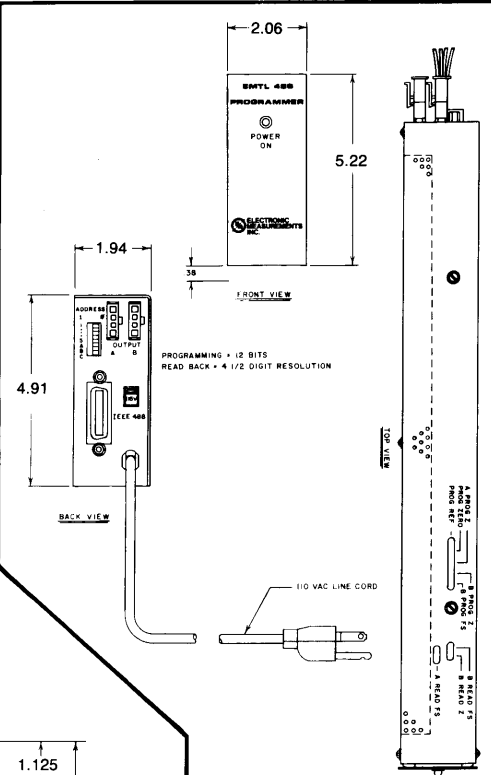
EMTL 488-3



EMTL 488-2



EMTL 488-1



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