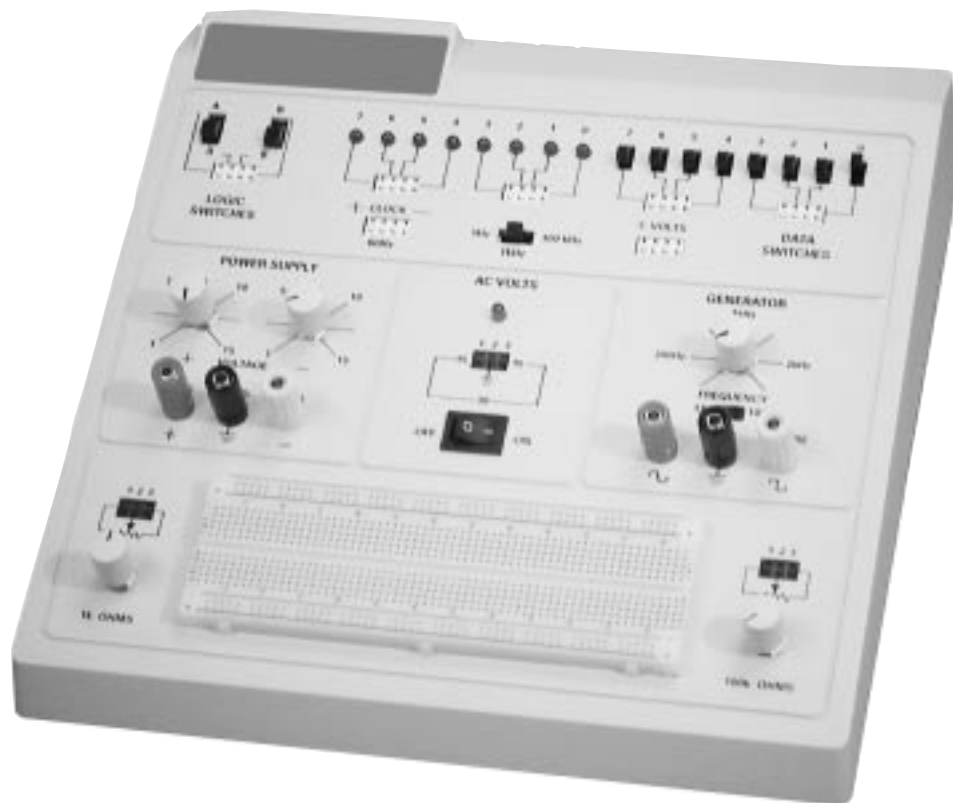


# DIGITAL / ANALOG TRAINER

## MODEL XK-150

A COMPLETE MINI-LAB FOR BUILDING, TESTING  
AND PROTOTYPING ANALOG AND DIGITAL CIRCUITS



Instruction Manual



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**Electronix**  
**EXPRESS**  
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## GENERAL SPECIFICATIONS FOR MODEL XK-150

### Power Supplies:

- +1.25V to 15VDC @ .25 amp
- -1.25 to -20VDC @ .25 amp
- +5V  $\pm$  5% @ .5 amp
- 30V AC center tapped at 15VAC @ .25 amp.
- Load regulator all DC supplies less than .2V no load to .25A
- Line regulator all DC supplies less than .2V 105 to 135V
- Hum and ripple all DC supplies less than .01V RMS
- Short protection all DC supplies-Internal IC thermal cutoff
- Fuse - .25A 250V

### Function Generator Analog Section:

- Waveforms sine, square, complimentary square
- Frequency - adjustable from 200 - 40kHz in 2 ranges
- Amplitude - sine wave 4Vpp  
square wave 12Vpp
- Output impedance 600 $\Omega$ :

### Digital Section:

- Data switches, eight DPDT, Hi 5V, low 0V
- Logic switches, two no bounce with complimentary output  
"On" voltage level 2.8V min., "Off" voltage level 1V max.  
Input impedance 100k $\Omega$ .
- Eight LED readouts, 100k $\Omega$  input impedance
- Clock frequency, 1Hz, 1kHz, 100kHz, 60Hz
- Clock amplitude, 5Vpp squarewave
- Clock rise time, better than 100nsec.

### Breadboards Section:

- One breadboards containing 830 tie points including to bus strips

### Variable Resistance (undedicated):

- 1k $\Omega$  Potentiometer
- 100k $\Omega$  Potentiometer

