

DIGITAL ANALOG LAB TRAINER



Features:

The **DAT-08X** Digital and Analog Lab Trainer combines a multitude of features in one compact unit, giving savings in time, space and money. Housed in a compact and robust casing, the DAT-08X is ideal for use in education, providing all the features a student will need when constructed and testing both analogue and digital electronics circuits.

Technical Specification:

1. Solderless Breadboard

Interconnected nickel plated contact with 1680 tie-points

2. DC Power Supply:

- (i) Variable $0 \sim \pm 15\text{VDC}/500\text{mA}$
- (ii) Fixed $\pm 5\text{VDC}/1\text{A}$

3. AC Power Supply:

- (i) $12\text{VAC}/900\text{mA}$

4. Eight (8)-Bits Output LEDs

- (i) Lo ($< 0.8 \pm 0.2\text{V}$) = Green
- (ii) Hi ($> 2.3 \pm 0.2\text{V}$) = Red
- (iii) Open ($0.8 \sim 2.3\text{V}$) = No Display

5. Eight (8)-Bits Data Input Switches

6. Two (2) Pulse Switches: /A, A, /B, B

7. Function Generator

- (i) Frequency Range:
 - 1Hz ~ 10Hz
 - 10Hz ~ 100Hz
 - 100Hz ~ 1KHz
 - 1KHz ~ 10KHz
 - 10KHz ~ 100KHz
 - 100KHz ~ 1MHz

- (ii) Waveform:
 - Square wave
 - Triangle Wave
 - Sine Wave
 - TTL Mode Output, 5Vpp

8. Potentiometers

- (i) Variable Resistor POT1 = $1\text{K}\Omega$
- (ii) Variable Resistor POT2 = $100\text{K}\Omega$
- (iii) Variable Resistor POT3 = $1\text{M}\Omega$

9. Logic Probe

- (i) Hi = H
- (ii) Lo = L
- (iii) Floating Level = O

10. Two (2) Digits 7-Segment LED Displays with BCD decoder/drivers

11. Built-in Speaker

12. BNC Connector (2x)

13. 4mm Banana Socket (2x)

14. Input Supply: 230~240VAC/50Hz

15. Built-in overload protection

16. Slide Switch (1x), Toggle Switch (1x)

17. Portable robust metal case form factor

18. Documentation: User Manual & Experiment Workbook

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