

## 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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