

Analog Lab Trainers

ALT-300

EDU-LABS



BUATAN MALAYSIA
MADE IN MALAYSIA



OVERVIEW

The ALT-300 contains all of the functions required for studying and experimenting with analog electronics, communication electronics etc. The ALT-300 is a complete analog training platform which is compact, lightweight and extremely durable.

The Experiments Of Analog Electronics (With Optional Components)

1. The Superposition Theorem
2. Capacitors in Voltage - Divider Networks
3. Operational Amplifier - The Inverting Amplifier
4. Operational Amplifier - The Non inverting Amplifier
5. Operational Amplifier - The Comparator
6. Operational Amplifier - The Summing Amplifier
7. The Common - Base Amplifier Structure
8. The Common - Emitter Amplifier Structure
9. The Common - Collector Amplifier Structure
10. The Op Amp Differentiator
11. The Op Amp Integrator
12. The RC Phase Shift Oscillator
13. The As table Multivibrator - 555 Timer
14. The Schmitt Trigger
15. The As table Multivibrator
16. The D/A Converter
17. The A/D Converter

Technical Specification

1. DC Power Supply
 - All DC power supplies equipped with short-circuit protection.
 - Fixed DC Output : +5 VDC, 500mA
 - Fixed DC Output : -5 VDC, 500mA
 - Fixed DC Output : +12 VDC, 500mA
 - Fixed DC Output : -12 VDC, 500mA
 - Variable DC Output : 0 ~ +23 VDC, 500mA
 - Variable DC Output : 0 ~ -23 VDC, 500mA

2. AC Power Supply
 - 19V-15V-9V-0V-9V-15V-19V
3. Analog Voltmeter Display
 - 0 - 50VDC full scale
 - class 1.5
4. Analog Ammeter Display
 - 0 - 5ADC full scale
 - Class 1.5
5. Function Generator:
 - Frequency: 1Hz to 500KHz
 - Frequency ranges : 6 Ranges
 - 1Hz ~10Hz
 - 10Hz ~ 100Hz
 - 100Hz ~ 1KHz
 - 1KHz ~ 10KHz
 - 10KHz ~ 100KHz
 - 100KHz ~ 1MHz
 - Sine wave output: 0~15 Vpp variable.
 - Triangle wave output: 0~8 Vpp variable.
 - Square wave output: 0~20 Vpp variable.
6. Potentiometers
 - Variable Resistor VR1: 1K Ω
 - Variable Resistor VR2: 100K Ω
7. Speaker
 - 8 Ω /0.25W
8. Seven (7) Channel Adaptor
 - Five connectors for banana socket
 - Two connectors for BNC Jack
9. Switches
 - 2 positions slide switch: 2 pcs
 - 3 positions slide switch: 1 pcs
 - 6 positions rotary switch: 1 pcs
10. Solderless Breadboard
 - Interconnected nickel plated with a total of 1680 tie points in total, fitted all DIP sizes and components with lead and solid wire in diameter of AWG #22-30 (0.3 - 0.8mm)
11. Accessories:
 - Power Cord
 - Operation Manual
12. Dimensions: 420 x 360 x 200 mm (L x W x H)
13. Weight: 3.5 Kg