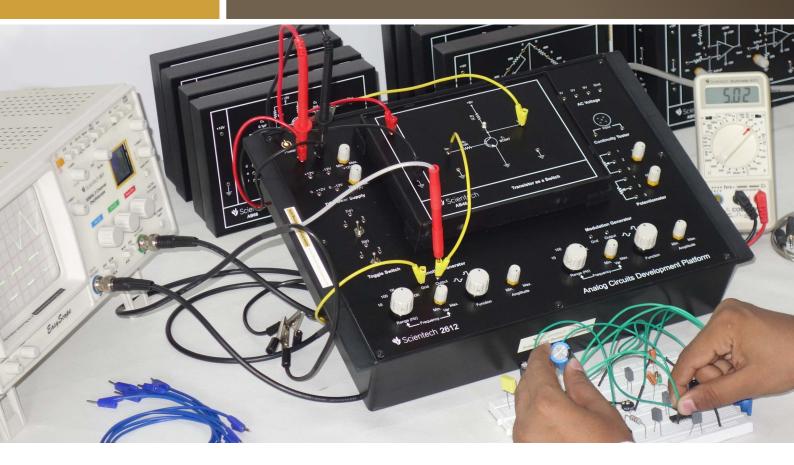


Analog Circuits Development Platform Scientech 2612



Platform is designed to fulfill requirement of performing experiments of analog electronics in a single platform. This makes it easy to design, experiment with, and test circuitry without soldering. Students can explore a wide variety of electronic concepts simply by sticking components into the breadboard. All connections and controls are clearly marked and conveniently located. It is very useful in analog electronics laboratories for performing analog experiments. It is also useful to build and test circuits as well as making projects related to analog electronics or when learning the subject.

Features

- Self contained and easy to operate
- Functional blocks indicated on board mimic
- On board DC and AC Power Supplies
- On board Function and Modulation Generators
- On board Continuity Tester
- On board Toggle switches and Potentiometers
- Solderless breadboard
- Free e-learning course

Analog Circuits Development Platform comprises of following blocks:

- DC Power Supplies
- Function Generator
- AC Voltage
- Continuity Tester
- Modulation Generator
- Potentiometers
- Toggle Switches

Scope of Learning

Study of:

- Diodes in DC circuits
- · Light emitting diodes in DC circuits
- Half wave rectifier
- Full wave rectifier
- Zener diode as a voltage regulator
- Transistor series voltage regulator
- Transistor shunt voltage regulator
- Low pass filter
- High Pass Filter
- Band Pass Filter
- CE configuration of NPN transistor
- CB configuration of NPN transistor
- CE Amplifier Circuit
- Monostable Multivibrator using Transistor
- Bistable Multivibrator using Transistor
- Astable Multivibrator using Transistor

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Technical Specifications

Size of Breadboard : 172.5mm x 128.5mm **Tie Points on Breadboard** : 1685 nos (solderless)

DC Power Supplies : +5V, 1A (fixed)

+12V, 500 mA (fixed) -12V, 500 mA (fixed) +12V, 500 mA (variable) -12V, 500 mA (variable)

AC Supply : 9V-0V-9V, 500 mA

Function Generator : Sine, Square, and Triangular functions

Frequency range:1Hz to 100KHz In 5 steps (variable in between the steps)

Modulation Generator : Sine, Square, and Triangular functions

Frequency range:1Hz to 10KHz In 4 steps

(variable in between the steps)

Continuity Tester : For testing the continuity (provided with

beeper sound)

 Mains Supply
 : 110-220V ±10%, 50/60Hz

 Weight
 : 3.5 Kg approximately

 Dimensions (mm)
 : W 326 x D 252 x H 52

Product Tutorial : Online (on www.ScientechLearning.com)

Included Accessories:

Breadboards (solderless) : 2 nos
Connecting wires : 20 nos
2mm to 1mm patch cords : 8 nos
2mm to 2mm patch cords : 8 nos
Mains cord : 1 no

Experimental boards AB Series (optional)

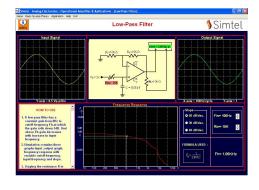
Ready to use Analog Experiment Boards (covering device characteristics and study of various analog circuits) with wired components and schematic drawn on top, compatible to use with Scientech 2612.





Screen shots of Simtel Analog Electronics (optional)





RLC-circuit R 100 L1m VP T600 Transistor Amplifer Crocuit Analog Circuit Simulation & PCB Design

Tina Design Software (optional)

Enhance your Analysis with Tina Design Suite

Analyze circuit through more than 20 different analysis modes including DC Analysis, AC Analysis, Transient Analysis, Digital step by step analysis, Symbolic Analysis, Network Analysis, Noise Analysis, Tolerance Analysis, Optimization, etc.