

Order Code -23247225.1 Analog - Digital Circuits **Developement Platform** 



# **Description:**

Analog-Digital Circuits Development Platform is designed to fulfill requirement of performing experiments of analog and digital 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 and digital electronics laboratories for performing experiments in colleges and universities. It is also useful to build and test circuits as well as making projects related to analog electronics or when learning the subject.

## **Analog Digital Lab comprises of following blocks:**

- DC Power Supplies
- Sine/Square/TTL Generator
- Speaker
- Potentiometers
- Pulser Switch
- AC Power Supply
- 8 bit Data Switches
- Logic Probe
- 8 bit LED Display

## Features:

- Self contained and easy to operate
- Functional blocks indicated on board mimic
- On board DC and AC Power Supplies
- On board Sine/Square/TTL Generator
- On board 8 bit Data switches and 8 bit LED display

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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GSTIN: 08AADCT8576E1ZZ

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IT-2013, Ramchandrapura Industrial Area, Sitapura Extension, Jaipur-302022, India.

















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- On board Logic Probe, Speaker, and Potentiometers
- Solderless Breadboard
- Free e-learning course

# **Scope of Learning:**

# Study of:

- Active Notch filter
- 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
- CC configuration of NPN transistor
- Gain Characteristics of a Noninverting Amplifier
- Op Amp in Inverting Configuration
- Operations of Wheatstone Bridge
- CE amplifier circuit
- Universal Gate
- Logic Gate
- Binary Adder
- 2 Bit Binary Subtracter
- Binary to Gray code conversion
- Gray code to Binary code conversion
- Binary to Excess-3 code conversion
- Characteristics of various types of Flip-Flops
- Crystal Oscillator
- 4Bit Binary Up-Down Counter
- Johnson Counter
- 4 Bit serial in parallel out Shift Register
- 8 to 3 Line Encoder
- 3 to 8 Line Decoder

#### **Technical Specifications:**

Size of Breadboard : 172.5 mm x 128.5mm

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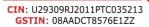


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- Tie Points on Breadboard: 1685 nos (solderless)
- DC Power Supplies :
- 1. +5V, 1A (fixed)
- +15V, 200mA (fixed)
- 3. -15V, A (fixed)
- 4. +15V, 1A (variable)
- 5. -15V, 1A (variable)
- AC Supply: 5V-0V-5V, 10V-0V-10V can be used as 5V, 10V, 15V, 20V AC & also as center tap
- Sine/Square/TTL Generator: 10Hz to 1MHz in 4 steps (variable in between the steps)
- Amplitude: Sine wave- 0 to15Vpp Square Wave- 0 to 10Vpp TTL5V (fixed)
- Fixed TTL (Clock): 0.1Hz
- Data Switches: 8 nos (Toggle switches)
- Pulser Switch : 1no
- LED Display: 8 nos
- Logic Probe : Logic level indicator H/L for TTL level (7 segment display)
- Potentiometers: 6 nos (100W to 47KW)
- Speaker: 8W/2W for audio use
- Power Supply: 110-220V ±10%, 50/60Hz
- Power Consumption: 8VA
- Weight: 4 kgs approximately
- Dimensions (mm): W 326 x H 52 x D 252

## **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 cords: 1 no

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