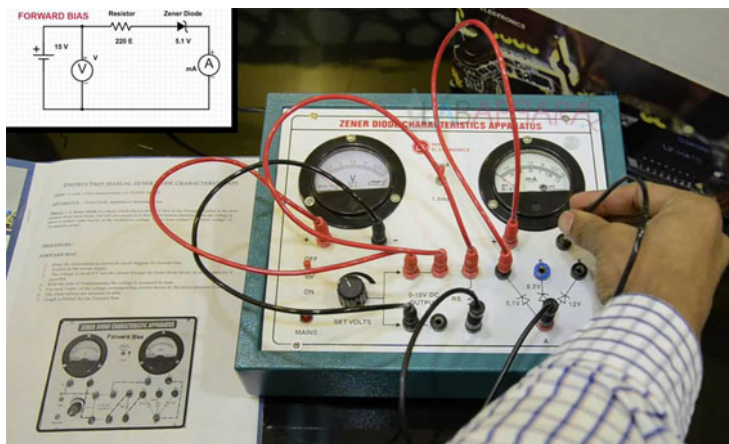


Analog Signal Sampling & Reconstruction



Product Categories: [Basic Communication Lab](#), [Engineering Equipment](#)

Product Page:

<https://www.labappara.com/product/analog-signal-sampling-reconstruction/>

Product Description

Analog Signal Sampling & Reconstruction

On-board signals

Sine wave

Frequency: 1 KHz, 2 KHz

Amplitude: 0 ~ 5Vpp

Sampling Clock

Internal frequency : 2 KHz, 4 KHz, 8 KHz, 16 KHz, 32 KHz, and 64 KHz

Duty cycle : 10 ~ 90% selectable in steps of 10%

Sampling Method

Natural sampling circuit

Sample and hold circuit

Flat top sampling circuit

Reconstruction

2nd order and 4 order low pass Butterworth filters with 3.4 KHz cut-off frequency

Switch faults

7 switch faults are provided on-board to study different effects on circuit

Test Points

24 test points are provided on board to observe various intermediate signals

Power Supply

GND, +5V, +12V, -12V