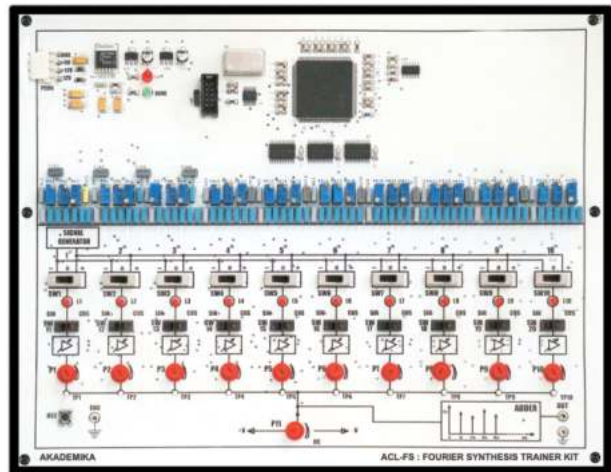


## ACL-FS Fourier Synthesis Kit



### FEATURES

- Signal synthesis by summing 10 harmonics
- Each harmonic selectable with +sin, -sin, +cos, -cos value
- Square, triangle, ramp, pulse, rectified sine, AM and other

#### Wave-form generation

- Spectrum analysis of the signal using ACT - 01 and ACT - 02

### SPECIFICATIONS

#### Frequency of the fundamentals

- 10 KHz with quartz control

#### Frequency of the harmonics

- 20 KHz, 30 KHz, 40 KHz, 50 KHz, 60 KHz, 70 KHz, 80 KHz, 90 KHz, 100 KHz

#### Phase of each sine wave

- Selectable  $0^\circ$  (sin),  $90^\circ$  (cos),  $180^\circ$  (-sin),  $270^\circ$  (-cos)

#### Amplitude of each sine-wave

- Adjustable on 2 ranges from 0 ~ 1 Vpp or from 0 ~ 10 Vpp
- Indication of the presence of each harmonic : via LED

#### Amplitude of the DC component

- Adjustable from -10V ~ +10V

#### Adder stage with 11 inputs

#### Power supply

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

### EXPERIMENTS

- To study square wave synthesis
- To study triangular wave synthesis
- To study saw-tooth wave synthesis
- To study AM wave synthesis

