ACT-02
PAM / PWM/ PPM Modulation & Demodulation Trainer Kit

ACT-XX is a Digital Communication Trainer System to under stand various digital Modulation and Demodulation Techniques. Various functional block diagrams are provided on-board for Teaching/Training. This Kits provides with various Test Points to visualize the signals on Oscilloscopes.

Features

- *PAM/PWM/PPM Techniques using Natural & Flattop sampling*
- *On-board 250hz,500hz,1KHz,2Khz Sine-wave generator with adjustable amplitude*
- *Sampling Clock of 4, 8,16,32 Khz*
- *On-board 4th order Butterworth Low pass filter with cut off frequency of 3.4khz*
- *In-Built Power Supply*

Specifications

- **Sine Wave Generator**
  - ✓ Provides Sine waveform output of 250Hz, 500Hz, 1 KHz, and 2 KHz.
  - ✓ Amplitude of 0 - 4Vp-p
  - ✓ Amplitude adjustments possible
- **Pulse Generator**
  - ✓ Switch selectable sampling clock of 4, 8, 16, 32 KHz.
  - ✓ Crystal Controlled Pulse Generator.
- **On-board features**
  - ✓ Analog Sample Circuit/Output
  - ✓ Sample & Hold Circuit/Output
  - ✓ Flat Top Circuit/Output
  - ✓ 4th order Butterworth Low pass filter with cut off frequency of 3.4 KHz.
  - ✓ Block Description Screen printed on glassy epoxy PCB
- **Modulation Techniques**
  - ✓ PAM modulation & demodulation
  - ✓ PWM modulation & demodulation
  - ✓ PPM modulation & demodulation
- **Interconnections**
  - ✓ All interconnections are made using 2mm banana Patch cords.
- Test points are provided to analyze signals at various points.
- All ICS are mounted on IC Sockets.
- Bare board Tested Glass Epoxy SMOBC PCB is used.
- In-Built Power Supply of +5V/1.5A, ±12V/250mA with Power ON indication
- Attractive ABS Plastic enclosures.
- Set of 2mm Patch cords for interconnections
- User's Manual with sample experimental programs

LIST OF EXPERIMENTS

- ☞ Study of Pulse Amplitude modulation and demodulation using Natural Sampling
- ☞ Study of Pulse Amplitude modulation and demodulation using Flat Top Sampling
- ☞ Study of Pulse Width modulation and demodulation using Natural Sampling and Flat Top Sampling
- ☞ Study of Pulse Position modulation and demodulation using Natural Sampling and Flat Top Sampling

Note : Specifications can be altered without notice in our constant efforts for improvement.

Kitek Technologies Pvt. Ltd., B-4, Lotus C.H.S., Plot No. 8, Sector - 7, Airoli, Navi Mumbai - 400708.
Tel.: 65116548 ⊔ Telefax : 27694323 ⊔ **Email:** knowl786@rediffmail.com ⊔ **Web** : www.kitektechnologies.com