



This trainer kit is designed to **demonstrate the principles and operation of an amplitude modulation (AM) transmitter**. It provides practical exposure to carrier generation, balanced modulation, and transmission through antenna/cable. With onboard oscillators, filters, LED indications, and fault simulation, it enables students to understand both **DSB and SSB transmission techniques**. An optional interactive software enhances visualization of signals and system behavior, making the kit ideal for communication engineering laboratories.

Application / Test Facility

- Study of **Amplitude Modulation (AM) transmission principles**
- Demonstration of **DSB and SSB transmitter circuits**
- Analysis of **carrier oscillator-controlled transmission**
- Evaluation of **fault conditions in AM transmitters**
- Hands-on experience with **on-board antenna transmission**

Product Features

- Functional block diagram with **waveform visualization**
- **Oscillator-controlled carrier frequency** at 1 MHz
- **LED indicators** for signal flow and selection
- **On-board antenna** for wireless transmission

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



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- Provision for **interactive software** to enhance learning

Technical Specifications

- **Audio Oscillator:** Adjustable amplitude & frequency, range 200 Hz to 3 kHz (or better)
- **Transmitter Amplifier Output:** Adjustable gain;
 - **DSB:** 1 MHz
 - **SSB:** 1.445 MHz
 - Output available on **antenna or cable**
- **Carrier Frequency:** 1 MHz (oscillator-controlled)
- **Switched Faults:** 7 or more
- **Modulators:** Balanced Modulator with Bandpass Filter (1 MHz) – 2 nos.
- **Test Points:** 25
- **Interconnections:** 2 mm sockets

Accessories / Spares

- Microphone
- Connecting Cables
- Set of Patch Cords

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