

FSK MODULATION AND DEMODULATION

A Comprehensive Training System for Frequency Shift Keying Communication Techniques

OVERVIEW

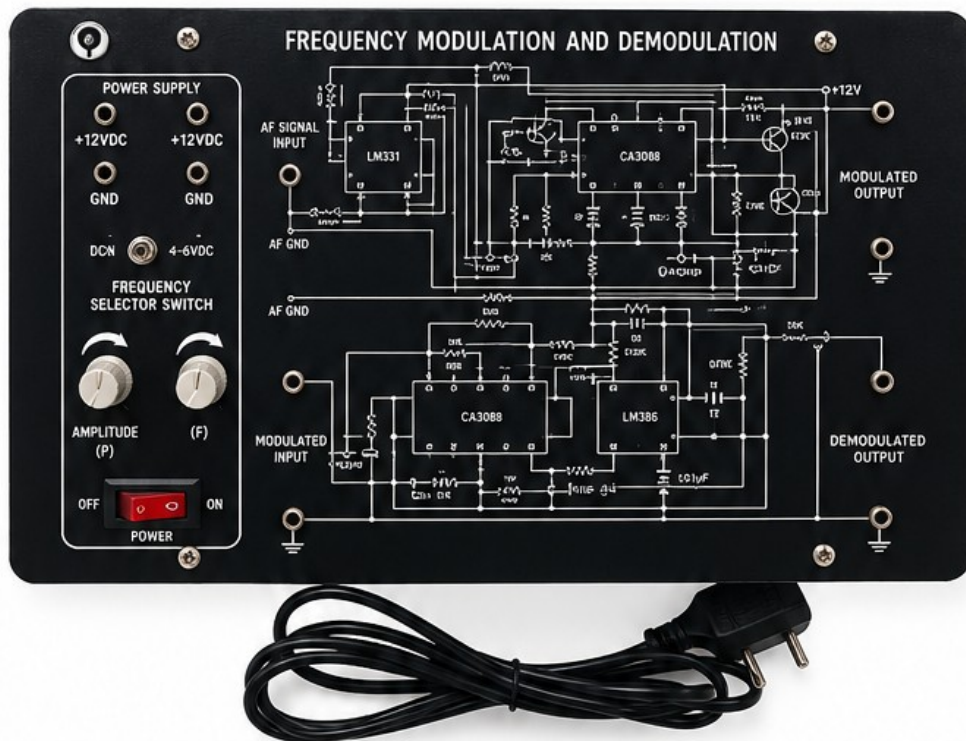
The FSK Modulation and Demodulation Trainer is a self-contained educational setup designed to demonstrate the principles of Frequency Shift Keying (FSK) modulation and demodulation. It enables students and professionals to study, analyze, and verify the performance of FSK communication systems through a combination of analog circuits and IC-based design.

FEATURES

- ✓ Complete FSK Modulator and Demodulator on single board
- ✓ Built using industry-standard ICs for reliability
- ✓ On-board DC regulated power supply
- ✓ Amplitude and Frequency control knobs
- ✓ LED indicators for signal monitoring
- ✓ Test points provided for observation and analysis
- ✓ Circuit diagram printed on panel for easy understanding
- ✓ Ideal for academic, training, and research laboratories

APPLICATIONS

-  Communication Systems Education
-  Digital Modulation & Demodulation Study
-  Research & Development
-  Professional Training & Skill Development



TECHNICAL SPECIFICATIONS

Power Supply	: $\pm 12V$ DC, 4–6V DC
Modulation Type	: Frequency Shift Keying (FSK)
Input Signal	: AF Signal
Outputs	: Modulated Output, Demodulated Output
Frequency Range	: Adjustable via Frequency Control
Amplitude Control	: Variable (P)
Components Used	: ICs – LM331, CA3088, CA3089, LM386, BC107 Passive Components – Resistors, Capacitors, etc.
Dimensions (Approx.)	: W 340mm $\times$ H 220mm $\times$ D 70mm
Weight (Approx.)	: 1.2 kg (Approx.)



WHAT YOU CAN LEARN

- ✓ Principles of FSK Modulation
- ✓ FSK Demodulation Techniques
- ✓ Role of VCO, Modulator & Demodulator Circuits
- ✓ Signal Conversion and Recovery
- ✓ Effect of Frequency Deviation
- ✓ Practical Understanding of Communication Systems



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