



An ISO 9001:2015
CERTIFIED CO.

ANALOG TO DIGITAL & DIGITAL TO ANALOG CONVERTER

ADVANCED ELECTRONICS TRAINER FOR ADC & DAC STUDY

PREMIUM
EDUCATIONAL
TRAINER

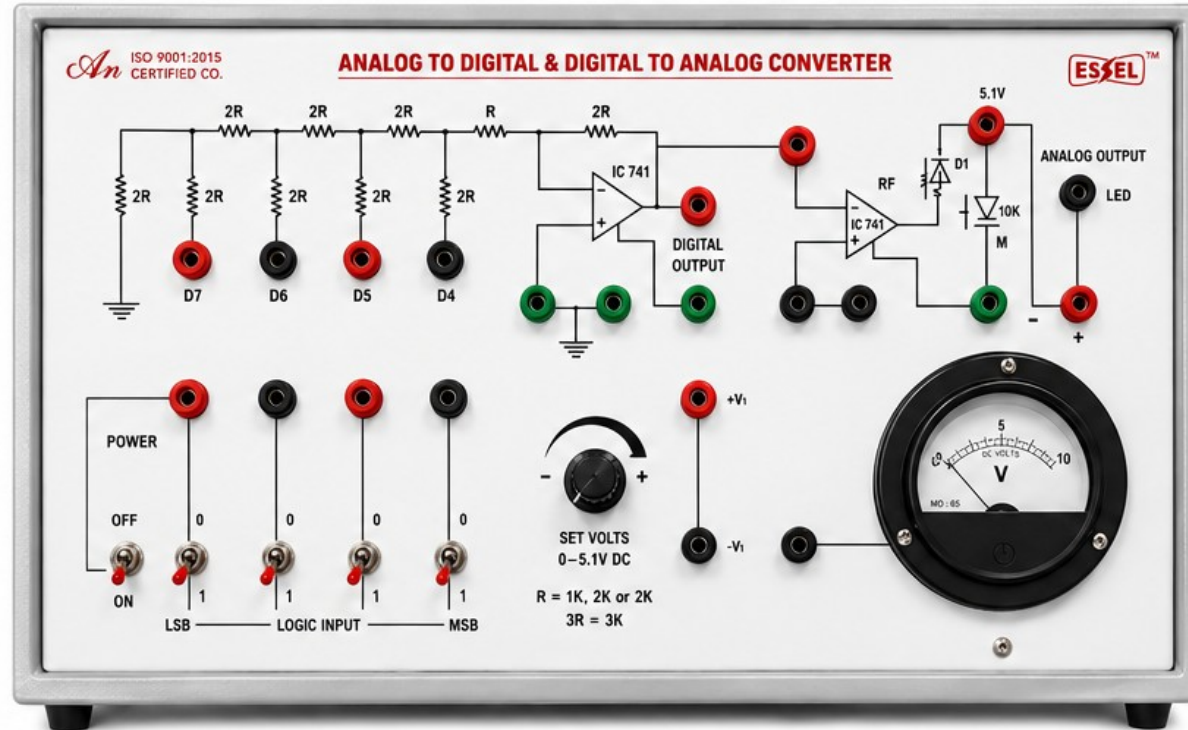
PRODUCT OVERVIEW

The Analog to Digital & Digital to Analog Converter Trainer is designed to provide practical understanding of ADC and DAC conversion techniques used in modern electronic systems. The trainer enables students to study digital representation of analog signals and reconstruction of analog signals from digital data through hands-on experimentation.

Ideal for Engineering Colleges,
Polytechnic Institutes, Technical
Universities, Electronics Laboratories,
and Research Centers.

KEY FEATURES

- ✓ Combined ADC and DAC Experimentation Platform
- ✓ Study of Analog-to-Digital Conversion
- ✓ Study of Digital-to-Analog Conversion
- ✓ Built-in Regulated Power Supply
- ✓ LED Output Indication
- ✓ Logic Input Selection Switches
- ✓ On-Board Meter for Measurement
- ✓ Clearly Printed Circuit Layout
- ✓ Heavy Duty Metal Cabinet
- ✓ Maintenance-Free Operation
- ✓ Laboratory Grade Construction



EXPERIMENTS

- ✓ Study of Digital to Analog Conversion
- ✓ Study of Analog to Digital Conversion
- ✓ Verification of Binary Weighted DAC
- ✓ Study of R-2R Ladder Network
- ✓ Analog Signal Reconstruction
- ✓ Digital Signal Representation
- ✓ Resolution Measurement
- ✓ Quantization Analysis
- ✓ ADC Transfer Characteristics
- ✓ DAC Output Characteristics



APPLICATIONS

- ✓ Digital Electronics Laboratories
- ✓ Engineering Colleges
- ✓ Polytechnic Institutes
- ✓ Technical Training Centers
- ✓ Instrumentation Laboratories
- ✓ Research & Development Labs
- ✓ Skill Development Centers



WHY CHOOSE ESEL?

- ✓ ISO 9001:2015 Certified Company
- ✓ Premium Educational Equipment
- ✓ Trusted Laboratory Equipment Manufacturer
- ✓ Long Service Life
- ✓ Advanced Engineering Design
- ✓ Nationwide & International Supply
- ✓ Custom Manufacturing Available

TECHNICAL SPECIFICATIONS

Product Name	Analog to Digital & Digital to Analog Converter
ADC Section	Integrated Analog to Digital Converter
DAC Section	R-2R Ladder Network Based DAC
Logic Inputs	Binary Logic Input Switches
Input Resolution	4-Bit Digital Input
Output Display	LED Indication
Meter	Built-in Analog Voltmeter
Analog Input	Variable DC Input
Analog Output	Available
Reference Voltage	Adjustable
IC Used	741 / Equivalent Operational Amplifier
Operating Voltage	+5V DC Regulated
Input Supply	230V AC $\pm 10\%$, 50Hz
Test Points	4 mm Safety Sockets
Cabinet	Powder Coated Metal Cabinet
Front Panel	Educational Printed Circuit Layout
Protection	Fuse Protected



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