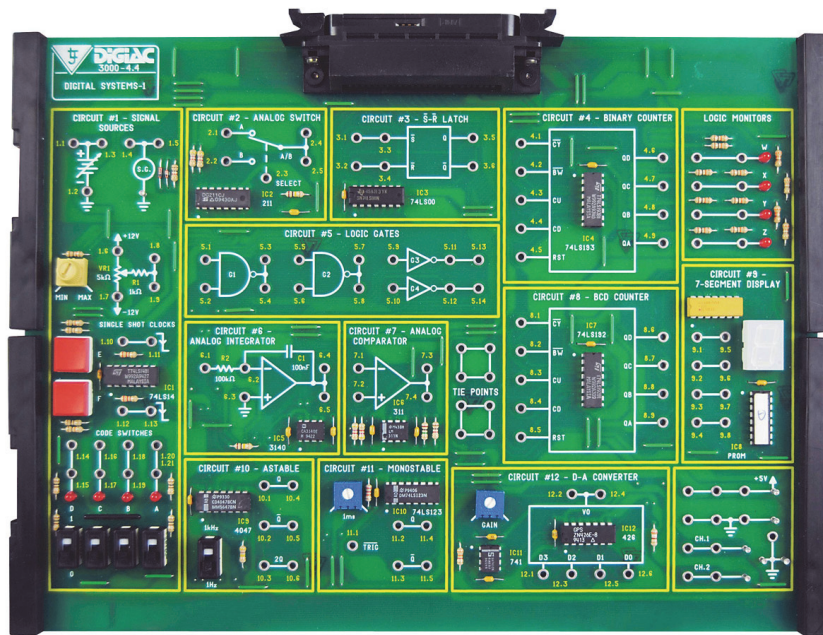


Product Information Sheet

Digital Systems Study Module



This electronics study module is designed to connect to the Advanced Electronics Experiment Platform (300-01) as part of a modular electronics programme.

The study module is designed to show students, through a series of practical applications, how digital circuits may be combined to form complex working systems.

Using the Advanced Electronics Experiment Platform, a range of faults to be selected and inserted into the study module circuits to develop electronic diagnostic and faultfinding techniques.

The study module is supplied with PDF manuals that provide theory materials, practical tasks, faultfinding activities, and technical information.

Topics Include the Following:

- The Analog Switch and Multivibrator IC Circuits
- Binary/BCD Counters and 7-Segment Decoder/Driver/Displays
- The Analog Comparator and Analog Integrator
- D-A Converter IC and an A-D Converter Circuit
- Voltmeter, Frequency Counter/Timer, and Triangular Waveform Generator Digital Systems.

Typical Activities Include:

- Observe the operation of an analog switch, a monostable, and a bistable circuit Diagnose faults in astable and monostable multivibrator circuits
- Predict the operation of a BCD up/down counter under known input conditions
- Observe the operation of a binary up/down counter
- Determine the output from an integrator for square wave and constant voltage inputs
- Recognize the effect of the value of the input resistor/feedback capacitor on the operation of an integrator
- Diagnose a fault in a triangle waveform generator circuit

- Predict the operation of a D-A converter from given information
- Predict the operation of an A-D converter from given information
- Observe the operation of a digital voltmeter, a frequency counter, and a triangular waveform generator system
- Faultfinding on digital systems

Items Included:

- Circuit Card
- Storage Case
- Curriculum Manual in PDF Format

Other Items Required:

- 300-01 Advanced Electronics Experiment Platform
- Digital Multimeter
- Dual Trace Oscilloscope
- Signal Generator

General Information:

Dimensions: 81 x 323 x 256 mm (W, H, D)
Shipping Volume: Approx 0.008 m³
Shipping Weight: Approx 2 kg

Order Code: 304-44

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For more information visit www.ljcreate.com