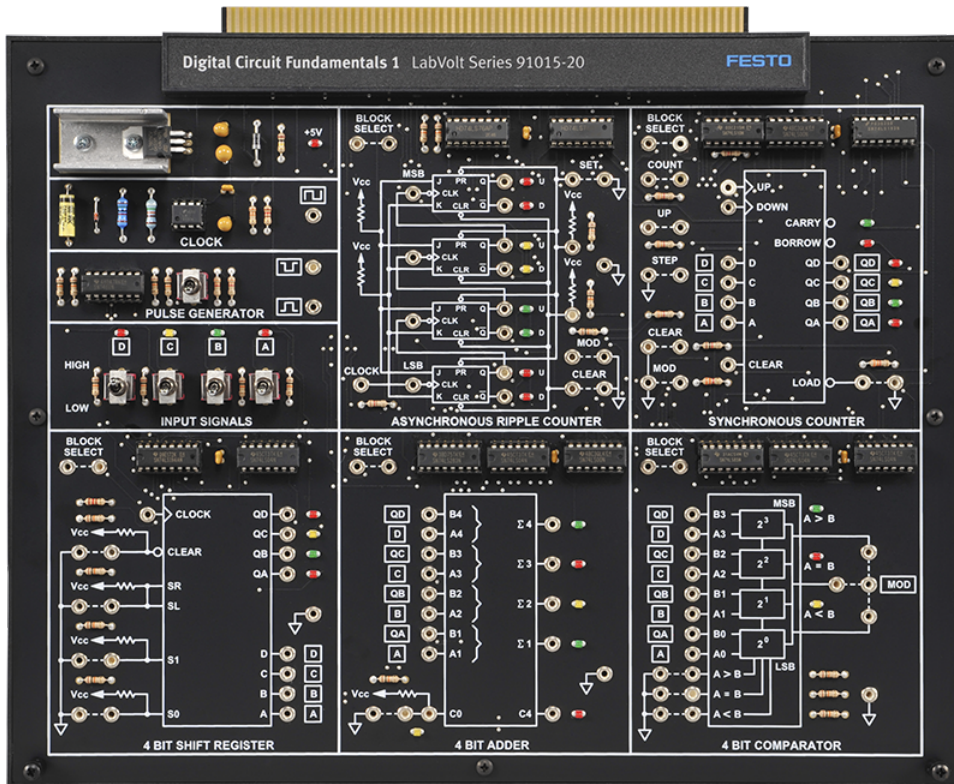


Digital Circuit Fundamentals 1 FACET Board 581045 (91015-20)



LabVolt Series

Datasheet



Festo Didactic

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11/2024

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Table of Contents

General Description	3
Topic Coverage	3
Features & Benefits	3

General Description

The Digital Circuit Fundamentals 1 module enables students to perform practical exercises that demonstrate digital circuit principles.

Students will identify the following circuits:

- Clock
- Pulse Generator
- Input Signals
- 4-bit Shift Register
- Asynchronous Ripple Counter
- 4-bit Adder
- Synchronous Counter
- 4-Bit Comparator

Topic Coverage

- Component Location and Identification
- Operation of General Circuits and IC Package Fundamentals
- Basic Counter Control Functions, Ripple Counter Waveforms, Synchronous Counter Circuit Waveforms and Glue Logic
- Basic Operating Modes of the Shift Register
- Shift Register Circuit Waveforms
- Fundamental Binary Addition, Addition with Input and Output Carry
- Fundamental Binary Comparisons
- Comparators and Counter Modulus Control
- Troubleshooting Basics and Troubleshooting Digital Circuits

Features & Benefits

- +5 V regulated supply
- Built-in clock circuit
- Built-in pulse generator circuit
- Manual input signal control

Reflecting the commitment of Festo Didactic to high quality standards in product, design, development, production, installation, and service, our manufacturing and distribution facility has received the ISO 9001 certification.

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