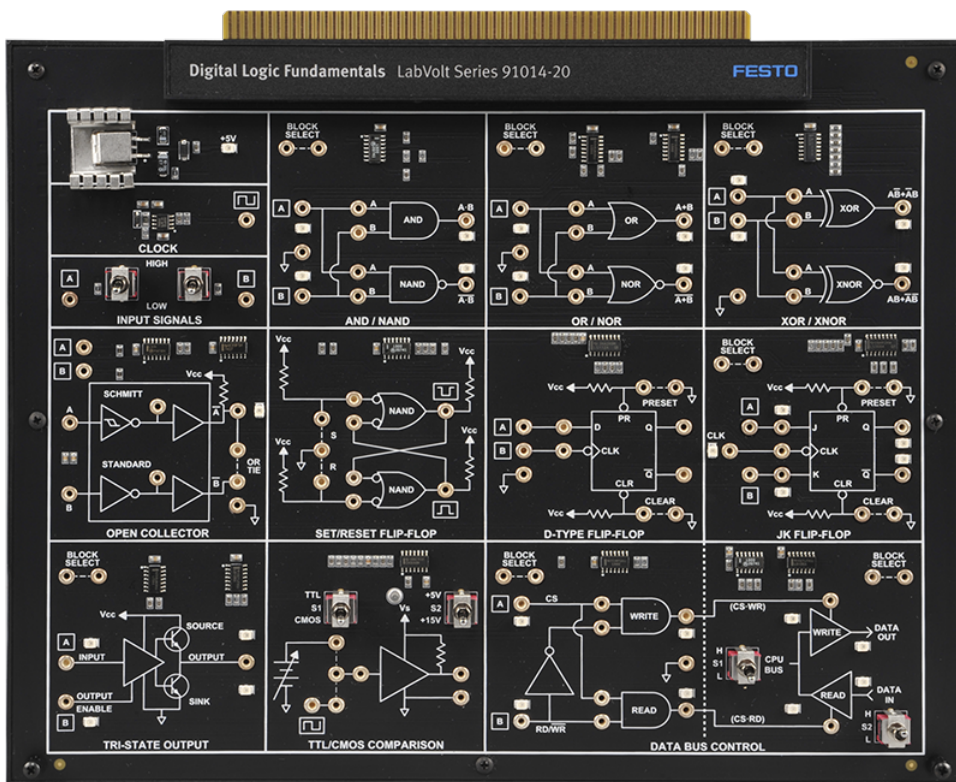


Digital Logic Fundamentals FACET Board 581033 (91014-20)



LabVolt Series

Datasheet



Festo Didactic

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06/2023

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General Description

The Digital Logic Fundamentals module enables students to perform practical exercises that demonstrate concepts and fundamentals of digital logic circuits.

The circuit board contains the following circuits:

- Clock
- Input Signals
- Open Collector
- Tri-State Output
- AND/NAND
- Set/Reset Flip-Flop
- TTL/CMOS Comparison OR/NOR
- D-type Flip-Flop
- Data Bus Control
- JK Flip-Flop and XOR/XNOR circuit blocks for students to understand and troubleshoot

Topic Coverage

- Component Location and Identification
- Operation of General Circuits and IC Package Fundamentals
- Logic Functions: AND, NAND, OR, NOR, Exclusive OR, NOR Gates
- Dynamic Response of XOR/XNOR Logic Gates
- DC Operation of a NOT and an OR-TIE
- Transfer Characteristics of a Schmitt and a Standard LS TTL Gate
- Flip-Flops: Set/Reset, D-Type, Static JK, Dynamic Operation
- Tri-State Gate: Output Enable Control, Sink and Source Control
- TTL and CMOS: Static Trigger Levels, Dynamic Transfer Characteristics
- Static and Dynamic Control of a Data Bus
- Troubleshooting Basics and Troubleshooting Digital Circuits

Features & Benefits

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

Optional Manual(s)

Qty	Description	Model number
1	Digital Logic Fundamentals (Workbook) _____	589691 (52210-P0)
1	Digital Logic Fundamentals (Workbook (Instructor)) _____	589692 (52210-R0)

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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