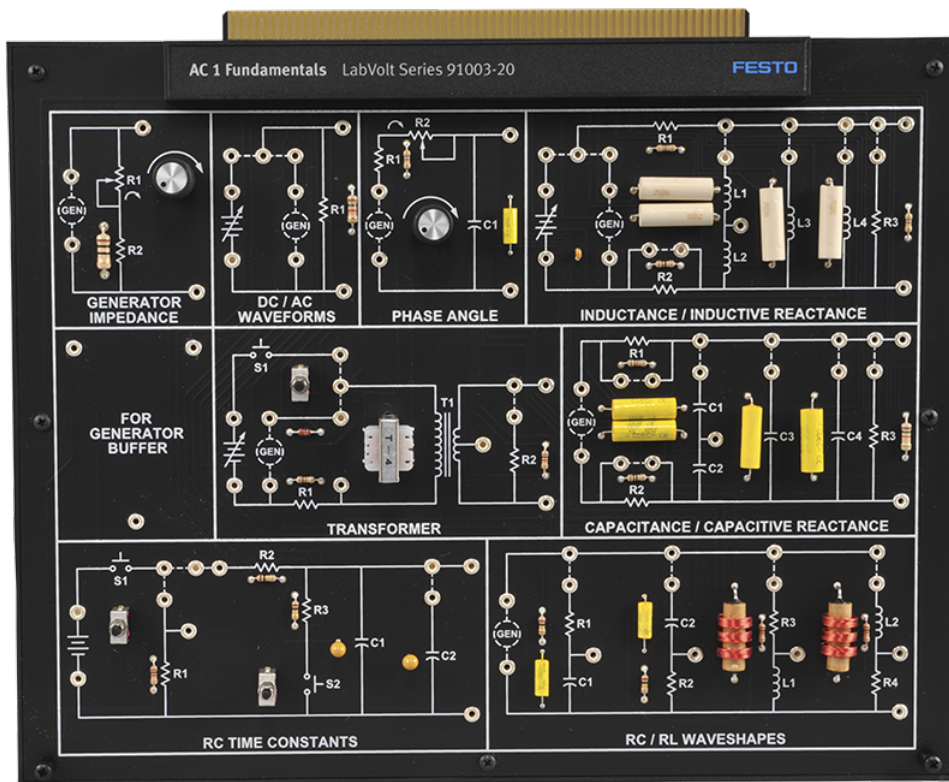


AC 1 Fundamentals FACET Board 580901 (91003-20)

FESTO

LabVolt Series

Datasheet



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10/2024

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General Description

This module contains nine circuit blocks on which students perform varied troubleshooting exercises in the AC 1 Fundamentals Program. Students identify and isolate the following circuits:

- Generator Impedance
- AC/DC Waveforms
- Phase Angle
- Inductance/Inductive Reactance
- Transformer
- Capacitance/Capacitive Reactance
- RC Time Constants
- RC/RL Wave Shapes

Topic Coverage

- Magnetism and how to make a Magnet
- The Oscilloscope
- Laboratory Instruments: Oscilloscope, AC Waveform Generator, AC Amplitude Measurements
- Measuring AC Voltage, Current and Impedance
- Measuring and Setting Frequency
- Inductors, Phase Angle, Series vs Parallel, Inductive Reactance and Impedance
- Series and Parallel RL Circuits
- Electromagnets, Solenoid, Relay
- Transformer Windings, Mutual Inductance, Turns and Voltage Ratios, Secondary Loading
- Capacitors, Series vs Parallel, Capacitive Reactance
- Series and Parallel RC Circuits
- RC Time Constants
- RC/RL Waveshapes
- Troubleshooting Basics, Troubleshooting the AC 1 Fundamentals Circuit Board

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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