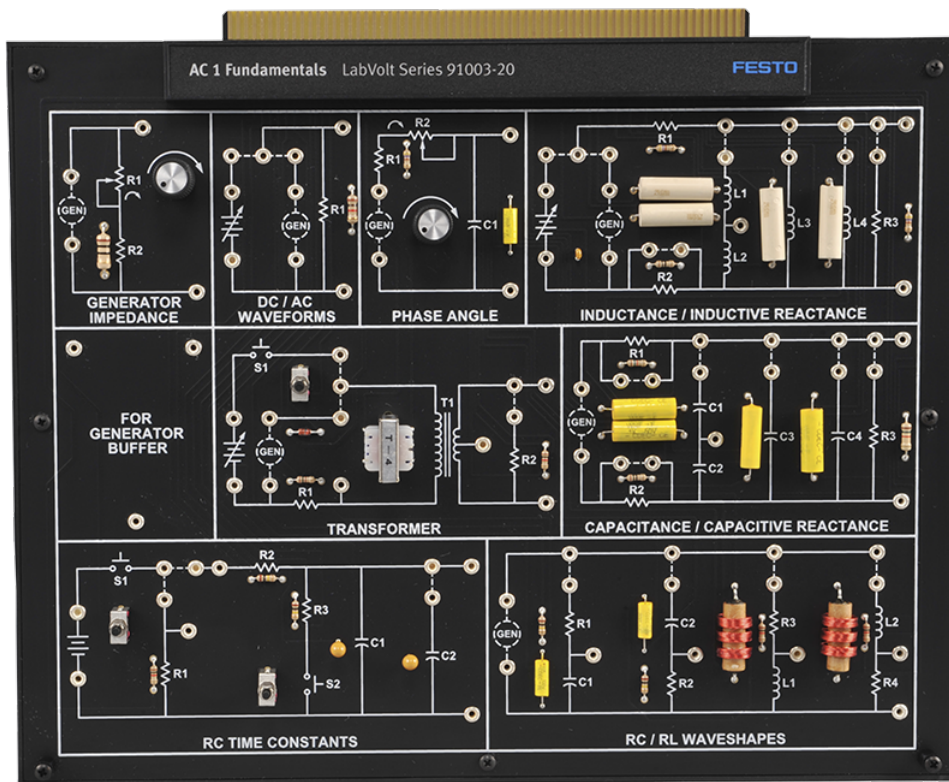


# AC 1 Fundamentals FACET Board 580901 (91003-20)

**FESTO**

LabVolt Series

Datasheet



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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

## Optional Manual(s)

Qty	Description	Model number
1	AC 1 Fundamentals (Workbook) _____	580661 (91562-P0)
1	AC 1 Fundamentals (Workbook (Instructor)) _____	580664 (91562-R0)

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**Festo Didactic SE**

Rechbergstrasse 3  
73770 Denkendorf  
Germany

P. +49(0)711/3467-0  
F. +49(0)711/347-54-88500

**Festo Didactic Inc.**

607 Industrial Way West  
Eatontown, NJ 07724  
United States

P. +1-732-938-2000  
F. +1-732-774-8573

**Festo Didactic Ltée/Ltd**

675 rue du Carbone  
Québec QC G2N 2K7  
Canada

P. +1-418-849-1000  
F. +1-418-849-1666

[www.labvolt.com](http://www.labvolt.com)

[www.festo-didactic.com](http://www.festo-didactic.com)