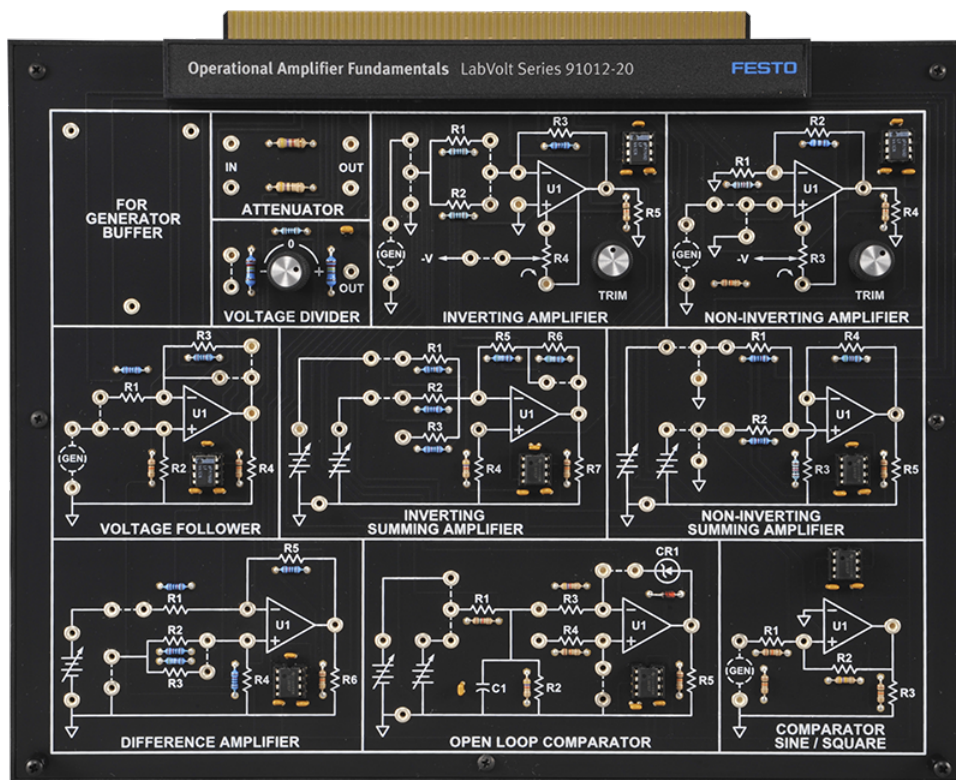


Operational Amplifier Fundamentals FACET Board 581009 (91012-20)



LabVolt Series

Datasheet



Festo Didactic

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11/2024

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Table of Contents

General Description _____	3
Topic Coverage _____	3

General Description

The Operational Amplifier Fundamentals module introduces students to the circuitry used in analog applications.

The objective is to familiarize students with the following circuits:

- Inverting Amplifier
- Non-Inverting Amplifier
- Voltage Follower
- Inverting Summing Amplifier
- Non-Inverting Summing Amplifier
- Difference Amplifier
- Open Loop Comparator
- Sine/Square Comparator

Topic Coverage

- Op Amp Types and Packages, Circuit Board Familiarization, Basic Op Amp Characteristics and Parameters
- Inverting and Non-Inverting Amplifiers Operation: DC and AC
- Voltage Follower DC Operation, AC Operation
- Typical Amplifiers Operation: Inverting Gain-of-One Amplifier, Inverting Summing Amplifier, Scaling, Averaging, Non-Inverting Summing, Difference Amplifier (AC/DC)
- Open-Loop Operation, Zener-Clamped Operation
- Sine Wave to Square Wave Converter
- Troubleshooting Basics and Troubleshooting Op Amp Circuits

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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