

Operational Amplifier Fundamentals

581009 (91012-20)

FESTO

LabVolt Series

Datasheet

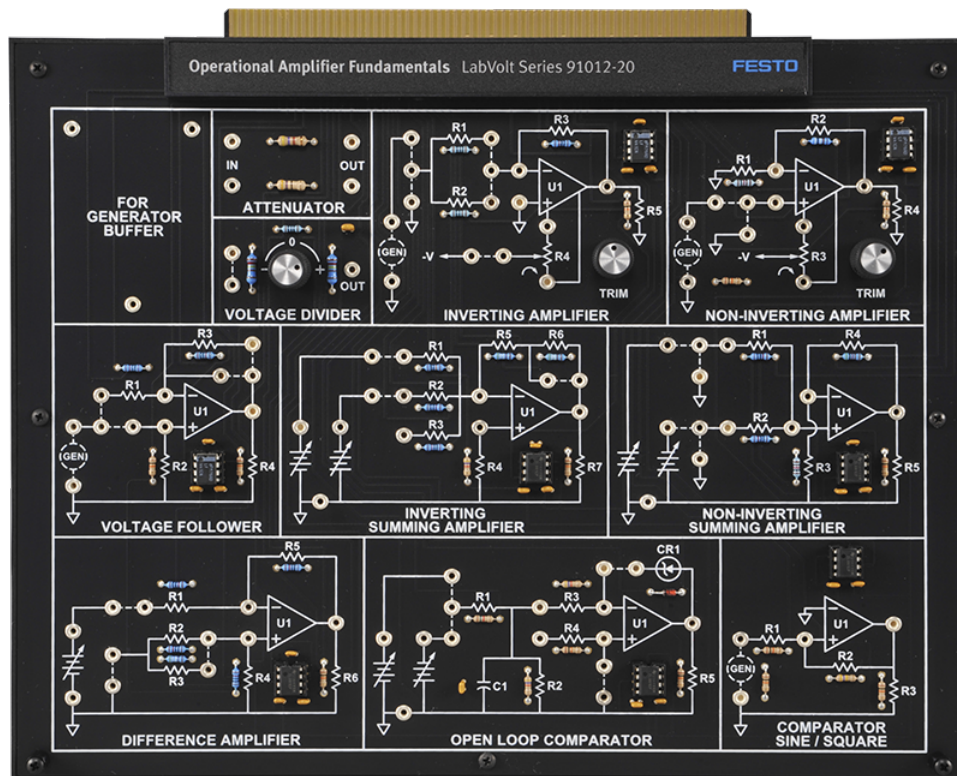


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General Description

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

This board is available in the following language variants:

- English variant: 91012-20
- French variant: 91012-21
- Spanish variant: 91012-22

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

Optional Manual(s)

Qty	Description	Model number
1	Operational Amplifier Fundamentals (Student Manual) _____	580736 (91571-P0) ¹
1	Operational Amplifier Fundamentals (Student Workbook) _____	580737 (91571-Q0)
1	Operational Amplifier Fundamentals (Instructor Guide) _____	580739 (91571-R0)

¹ The manuals Operational Amplifier Fundamentals, both the student manual and instructor guide, are also available in computer-based format.

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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

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