

# Non-inverting Operational Amplifier

## Student Group

First Name	Surname	Matrikel Nr.

## Table of Contents

Non-inverting Operational Amplifier .....	2
Op-Amp as current source .....	2

## Non-inverting Operational Amplifier

### Op-Amp as current source

An Op-Amp can not only amplify currents and voltages, it can also act itself as current source. Here is an scematic of an typical current source build by an Op-Amp:



Fig. 1: Non-inverting Op-Amp: current source

$U_{DD} \approx 10\text{V}$ ,  $U_{SS} \approx -10\text{V}$ ,  $R_1 \approx 100\text{k}\Omega$ ,  $R_2 \approx 10\text{k}\Omega$ ,  $R_3 \approx 100\Omega$

Measure the values given in the table below.

Potentiometer	$(U_{R2})$	$(U_{R3})$	$(I_{OUT})$	$(U_{OUT})$	$(I_{OUT})$	$(U_{OUT})$
0%						
50%		...				

Tab. 1: Op-Amp as current source: measured and calculated values

From:  
<https://wiki.mexle.org/> - MEXLE Wiki

Permanent link:  
[https://wiki.mexle.org/lab05\\_en/non\\_inverting\\_op\\_amp\\_current\\_source?rev=1776954771](https://wiki.mexle.org/lab05_en/non_inverting_op_amp_current_source?rev=1776954771)

Last update: **2026/04/23 16:32**

