

Non-inverting Operational Amplifier

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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 schematic of an typical current source build by an Op-Amp:



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

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

Measure or calculate the values given in the table below.

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

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

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