



# simple Servo Signal Generator / Analyzer



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## Summary

Using an Arduino Nano and a DIP204-4 LCD it generates Servo Signal and analyzes RC Signal from a Receiver

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This is a simple Servo Signal Generator / Analyzer using an Arduino Nano and a DIP204-4 LCD.

The Output provides a Servo Signal Pulse with 20ms Period. Arduino Source Code is also provided.

The Pulse Width can be controlled via Poti either between 800-2200us oder 1000.2000us.

You can directly connect a servo to the Output.

This Range is selected with one of two Buttons. The other Button switches LCD Backlight on/off.

The input analyzes the Signal from an RC receiver.

The percentage values depend on the selected Range.

I used a 2.54mm THT PCB manually wired according the attached schematic.

Unfortunately the DIP204 LCD has a 2.00mm grid, so it needs some effort to connect it.

The attached PDF files can suport the wiring.

Input and Output Connectors are doubled so that at least on could be used for supply of 5V.

You may want to integrate an internal battery. In this case you need to modify the Case.

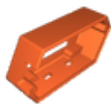
Category: Electronics

## Model files



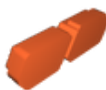
**servosignalcover.stl**

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**servosignaltop\_case.stl**

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**servosignalbuttons.stl**

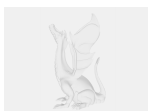
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**servosignal\_tv.rsdoc**

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## Other files

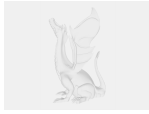


**servosignal.ino**

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**servosignal.pdf**



**servosignal\_1.pdf**

[Find source .stl files on Thingiverse.com](#)

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