

Supplementary Information

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Title: Paper-based cantilever beam mini actuator using hygro-thermal response.

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Current control

The design of a current control to supply at mini actuator was performance following the diagram show in figure S1. Where current control was designed through the value selection to Resistance 1 (R_1) which was settled at 1.8 Ohm to deliver a current of 542 mA. This value changed because of the sample resistance added in series with R_1 .

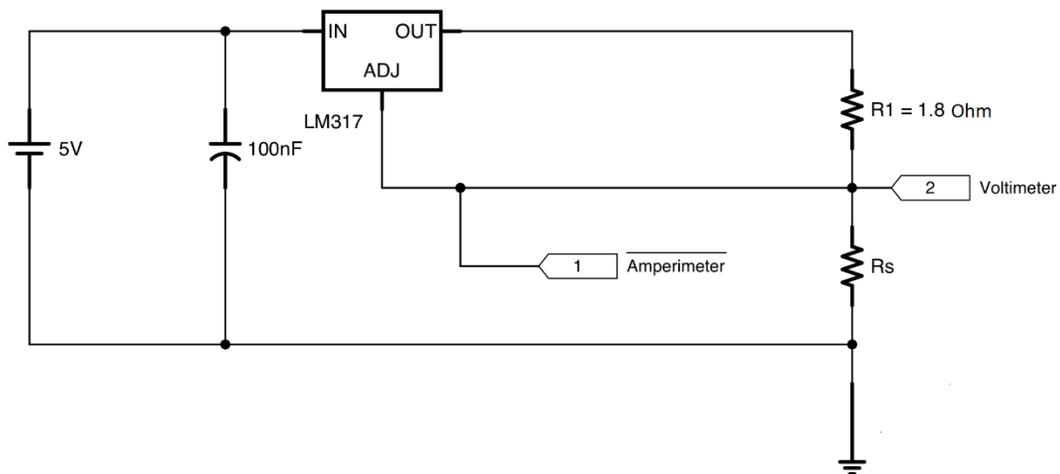


Figure S1. Current Control Diagram.