

DIGI POT 7 Click



PID: MIKROE-4414

DIGI POT 7 Click is a compact add-on board used as a digitally controlled potentiometer. This board features the [AD5175](#), a single-channel 1024-position digital rheostat with less than $\pm 1\%$ end-to-end resistor tolerance error and 50-time programmable wiper memory from [Analog Devices](#). This I2C configurable IC is designed to operate as a variable resistor for analog signals, within the voltage range of single-supply operation at 2.7 V to 5.5 V. Unlimited adjustments are allowed before programming the resistance value into the programmable memory. This Click board™ can be used as mechanical rheostat replacements, in a voltage to current conversions, for gain and offset adjustment, and many more applications.

DIGI POT 7 Click is supported by a [mikroSDK](#) compliant library, which includes functions that simplify software development. This [Click board™](#) comes as a fully tested product, ready to be used on a system equipped with the [mikroBUS™](#) socket.

Mikroe produces entire development toolchains for all major microcontroller architectures.

Committed to excellency, we are dedicated to helping engineers bring the project development up to speed and achieve outstanding results.



ISO 27001: 2013 certification of informational security management system.
 ISO 14001: 2015 certification of environmental management system.
 OHSAS 18001: 2008 certification of occupational health and safety management system.



ISO 9001: 2015 certification of quality management system (QMS).

Specifications

Type	Digital potentiometer
Applications	Can be used as mechanical rheostat replacements, in a voltage to current conversions, for gain and offset adjustment, and many more applications
On-board modules	AD5175 - a single-channel 1024-position digital rheostat, with less than $\pm 1\%$ end-to-end resistor tolerance error and a 50-time programmable (50-TP) wiper memory from Analog Devices.
Key Features	Low power consumption, high precision, 50-times programmable wiper memory, 10 k Ω nominal resistance, I2C compatible, and more.
Interface	I2C
ClickID	No
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

Downloads

[DIGI POT 7 click schematic](#)

[DIGI POT 7 click example on Libstock](#)

[DIGI POT 7 click 2D and 3D files](#)

[AD5175 datasheet](#)

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