

RMS to DC 2 Click



PID: MIKROE-5821

RMS to DC 2 Click is a compact add-on board that converts the RMS of the input signal into a DC voltage. This board features the [AD8436](#), a low-cost, low-power, true RMS-to-DC converter from [Analog Devices](#). The AD8436 is a translinear precision, low-power, true RMS-to-DC converter that delivers true RMS or average rectified value of AC waveform. It features high accuracy, a wide dynamic input range (100µV rms to 3V rms), a wide bandwidth of up to 1MHz, and more. This Click board™ makes the perfect solution for the development of various true RMS digital multimeter applications, panel meters and gauges, AC + DC measurement applications, a true RMS measurement of an audio signal, and other similar applications that require accurate RMS value readings.

RMS to DC 2 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	Measurements
Applications	Can be used for the development of various true RMS digital multimeter applications, panel meters and gauges, AC + DC measurement applications, a true RMS measurement of an audio signal, and other similar applications that require accurate RMS value readings
On-board modules	AD8436 - low-power true RMS-to-DC converter from Analog Devices
Key Features	Fast settling at the input level, high accuracy, wide dynamic input range, wide bandwidth, zero converter DC output offset, no residual switching products, accurate conversion with crest factors up to 10, precision DC output buffer, and more
Interface	Analog,I2C
ClickID	Yes
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

[mikroBUS™](#)
[mikroSDK](#)
[Click board™ Catalog](#)
[Click Boards™](#)

Downloads

[AD8436 datasheet](#)
[RMS to DC 2 click schematic](#)
[RMS to DC 2 click 2D and 3D files](#)
[RMS to DC 2 click example on Libstock](#)

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