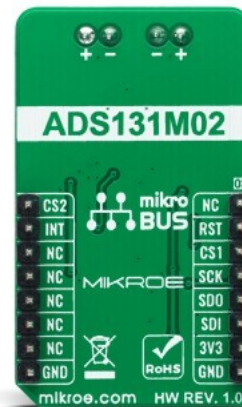


## ADC 15 Click



PID: MIKROE-4890

**ADC 15 Click** is a compact add-on board that contains a high-performance data converter. This board features the [ADS131M02](#), a two-channel, simultaneously sampling, 24-bit, delta-sigma ( $\Delta\Sigma$ ), analog-to-digital converter from [Texas Instruments](#). The ADC inputs can be independently configured via serial peripheral interface depending on the sensor input. A low noise, programmable gain amplifier (PGA) provides gains ranging from 1 to 128 to amplify low-level signals. Additionally, this ADC integrates channel-to-channel phase, offset and gain calibration registers to help remove signal-chain errors alongside a low-drift, 1.2V integrated reference. This Click board™ offers a wide dynamic range, low power, and energy-measurement-specific features, making the device an excellent fit for energy metering, power metrology, and circuit breaker applications.

ADC 15 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	ADC
Applications	Can be used for energy metering, power metrology, and circuit breaker applications
On-board modules	ADS131M02 - low-power, two-channel, simultaneously sampling, 24-bit, delta-sigma ( $\Delta\Sigma$ ) analog-to-digital converter (ADC) with a low-drift internal reference voltage from Texas Instruments
Key Features	Two simultaneously sampling differential inputs, programmable gain and data rate, integrated negative charge pump allows input signals below ground, wide dynamic range, low power, and energy-measurement-specific features, and many more
Interface	SPI
ClickID	No
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V

## Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

## Downloads

[ADC 15 click schematic](#)

[ADC 15 click 2D and 3D files](#)

[LTC6903 datasheet](#)

[ADS131M02 datasheet](#)

[ADC 15 click example on Libstock](#)

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