

ADC 13 Click



PID: MIKROE-4743

ADC 13 Click is a compact add-on board that contains a high-performance data converter. This board features the [ADS1262](#), a 32-bit, high precision, 38-kSPS, analog-to-digital converter with programmable gain amplifier and voltage reference from [Texas Instruments](#). This ADC consists of a low-noise CMOS PGA (gains 1 to 32), a $\Delta\Sigma$ modulator, followed by a programmable digital filter. The flexible analog frontend (AFE) incorporates two sensor-excitation current sources suitable for direct RTD measurement. A single-cycle settling digital filter maximizes multiple input conversion throughput while providing 130dB rejection of 50Hz and 60Hz line cycle interference. This Click board™ offers complete, high accuracy solutions for the most demanding sensor applications, including weighing scales, strain-gauge sensors, thermocouples, and resistance temperature devices (RTD).

ADC 13 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 the most demanding sensor applications, including weighing scales, strain-gauge sensors, thermocouples, and resistance temperature devices (RTD)
On-board modules	ADS1262 - low noise, low-drift, 38.4kSPS, delta-sigma ($\Delta\Sigma$) ADC with an integrated PGA, reference, and internal fault monitors from Texas Instruments
Key Features	Low power consumption, low noise and drift, integrated PGA, internal fault monitors, 11 multifunction analog inputs, high accuracy, and more
Interface	SPI
ClickID	No
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

[ADC 13 click 2D and 3D files](#)

[ADS1262 datasheet](#)

[ADC 13 click example on Libstock](#)

[ADC 13 click schematic](#)

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