

Load Cell 5 Click



PID: MIKROE-4510

Load Cell 5 Click is a compact add-on board that represents a weigh scale solution. This board features the AD7780, a pin-programmable, low power, 24-bit sigma-delta $\Sigma\Delta$ ADC from Analog Devices. It interfaces directly to the load cell, where the low-level signal from the load cell is amplified by the AD7780's internal low noise programmable gain amplifier programmed to operate with a gain of 128 or 1. It also has a power-down mode allowing the user to switch off the power to the bridge sensor and power-down the AD7780 when not converting, increasing the product battery life. This Click board™ has many features that make it a perfect solution for safety-critical and weight measurement applications.

Load Cell 5 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	Force
Applications	Can be used for safety-critical and weight measurement applications.
On-board modules	AD7780 - pin-programmable, low power, 24-bit sigma-delta $\Sigma\Delta$ ADC from Analog Devices
Key Features	Low power consumption, pin-programmable filter response, pin-programmable reset and gain, internal bridge power-down switch, independent interface power supply, 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

[Load Cell 5 click schematic](#)

[Load Cell 5 click 2D and 3D files](#)

[AD7780 datasheet](#)

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