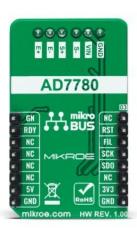


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Load Cell 5 Click





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 $\underline{\mathsf{mikroSDK}}$ compliant library, which includes functions that simplify software development. This $\underline{\mathsf{Click}}$ board $\underline{\mathsf{mikroBUS}}^{\mathsf{m}}$ comes as a fully tested product, ready to be used on a system equipped with the $\underline{\mathsf{mikroBUS}}^{\mathsf{m}}$ 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.





health and safety management system.



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Specifications

Туре	Force
Applications	Can be used for safety-critical and weight measurement applications.
On-board modules	AD7780 - pin-programmable, low power, 24-bit sigma-delta ΣΔ 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

<u>mikroBUS™</u>

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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