

Load Cell 6 Click



PID: MIKROE-4940

Load Cell 6 Click is a compact add-on board representing a weigh scale solution. This board features the [MAX11270](#), a high-performance 24-bit delta-sigma ADC that achieves excellent 130dB SNR while dissipating an ultra-low 10mW from [Analog Devices](#). This SPI-configurable ADC sample rates up to 64ksps allow precision DC and AC measurements, with integral non-linearity guaranteed to 4ppm maximum. The MAX11270 offers a 6.5nV/√Hz noise programmable gain amplifier with gain settings between 1x to 128x. Optional buffers are also included to isolate the signal inputs from the switched capacitor sampling network, which allows the MAX11270 to be used with high-impedance sources without compromising the available dynamic range. This Click board™ is suitable for weight scale applications in various use cases.

Load Cell 6 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 weight scale applications in various use cases |
| On-board modules | MAX11270 - pin programmable, ultra-low power 24-bit $\Sigma\Delta$ ADC that resolves a very high dynamic range from Analog Devices |
| Key Features | High-resolution for instrumentation applications that require a wide dynamic range, high accuracy for DC measurements, flexible high-performance filter architecture, and more |
| Interface | SPI |
| ClickID | No |
| Compatibility | mikroBUS |
| Click board size | L (57.15 x 25.4 mm) |
| Input Voltage | 3.3V,5V |

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click Boards™](#)

Downloads

[MAX6126 datasheet](#)

[MAX11270 datasheet](#)

[Load Cell 6 click 2D and 3D files](#)

[Load Cell 6 click schematic](#)

[Load Cell 6 click example on Libstock](#)

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