Load Cell 2 Click

PID: MIKROE-4047

Load cell 2 Click is a weight measurement click which utilizes a load cell element, in order to precisely measure the weight of an object. The Load Cell 2 Click can be used with the strain gauge type of load cells with external differential reference voltage range from 0.1V to 5V. The strain gauge load cell is typically a circuit made of four strain gauges, connected in the Wheatstone bridge configuration. Very small voltage changes need to be accurately detected and converted into a digital form. The Load Cell 2 Click is based around the NAU7802, which is a 24-bit analog-to-digital converter, operated via a simple I2C command, from Nuvoton. This sensor has many features that make it a perfect solution for small designs. One of these features is certainly its high level of integration that allows a minimal number of external components.

Load Cell 2 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.

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Specifications

Type	Force
Applications	NAU7802 provides a complete front-end solution for bridge/sensor measurement such as in weigh scales, strain gauges, and many other high resolution, low sample rate applications.
On-board modules	NAU7802 24-Bit Dual-Channel ADC For Bridge Sensors
Key Features	NAU7802 is a precision low-power 24-bit analog-to-digital converter (ADC), with an onboard low-noise programmable gain amplifier (PGA), onboard RC or Crystal oscillator, and a precision 24-bit sigma-delta (Σ-Δ) analog to digital converter (ADC)
Interface	I2C
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V

Resources

mikroBUS™

mikroSDK

Click board™ Catalog

Click boards™

Downloads

Load Cell 2 click example on Libstock

Load Cell 2 click 2D and 3D files

NAU7802 datasheet

Load Cell 2 click schematic

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