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Load Cell 7 Click



PID: MIKROE-5276

Load Cell 7 Click is a compact add-on board representing a weigh scale solution. This board features the ADS1230, a high-precision 20-bit delta-sigma analog-to-digital converter (ADC) with an outstanding noise performance from Texas Instruments. This SPI-configurable ADC (read-only) offers selectable gain and data rate values, supporting a full-scale differential input of ±39mV/±19.5mV and 10SPS/80SPS, respectively. It comes with an onboard low-noise programmable gain amplifier (PGA) and onboard oscillator providing a complete front-end solution. This Click board™ has many features that make it a perfect fit for bridge sensor applications, including industrial process control, weigh scales, and strain gauges.

Load Cell 7 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).

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Specifications

Type	Force
Applications	Can be used for bridge sensor applications, including industrial process control, weigh scales, and strain gauges
On-board modules	ADS1230 - 20-bit delta-sigma analog-to-digital converter (ADC) from Texas Instruments
Key Features	High precision, outstanding noise performance, selectable gain and data rate, complete front-end for bridge sensor, low power consumption, 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 boards™

Downloads

Load Cell 7 click example on Libstock

ADS1230 datasheet

Load Cell 7 click 2D and 3D files

Load Cell 7 click schematic

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