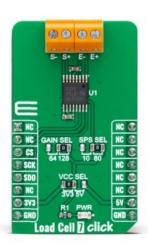


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Load Cell 7 Click



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 $\pm 39 \text{mV}/\pm 19.5 \text{mV}$ and 10 SPS/80 SPS, 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 $\underline{\mathsf{mikroSDK}}$ compliant library, which includes functions that simplify software development. This $\underline{\mathsf{Click}}$ board $\underline{\mathsf{TM}}$ comes as a fully tested product, ready to be used on a system equipped with the $\underline{\mathsf{mikroBUS}}^{\mathsf{TM}}$ 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 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 |
| Compatibility | mikroBUS |
| Click board size | M (42.9 x 25.4 mm) |
| Input Voltage | 3.3V or 5V |

Resources

<u>mikroBUS™</u>

mikroSDK

Click boards™

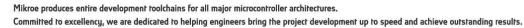
Downloads

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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