MIKROELEKTRONIKA D.O.O, Batajnički drum 23, 11000 Belgrade, Serbia
VAT: SR105917343 Registration No. 20490918
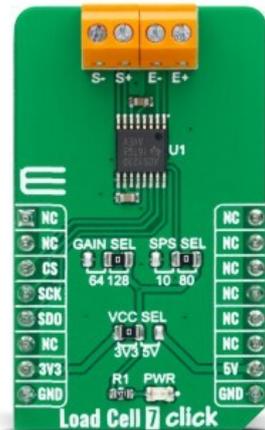Phone: + 381 11 78 57 600 Fax: + 381 11 63 09 644 E-mail: office@mikroe.com
www.mikroe.com

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.

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