

LDC 2 Click



PID: MIKROE-4783

LDC 2 Click is a compact add-on board that measures inductance change which a conductive target causes when it moves into the inductor's AC magnetic field. This board features the [LDC1041](#), inductance-to-digital converter (LDC) for inductive sensing solutions from [Texas Instruments](#). This Click board™ is easy-to-use, requiring only the sensor frequency within 5kHz and 5MHz to begin sensing, and demonstrates the use of inductive sensing technology to sense and measure a conductive target object's presence, position, or composition. It comes with an example of a PCB sensor coil designed to provide the user with maximum flexibility. This Click board™ is suitable for contactless, short-range sensing that enables high-resolution and low-cost position sensing of conductive targets, even in harsh environments.

LDC 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.

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	Inductance
Applications	Can be used for contactless, short-range sensing that enables high-resolution and low-cost position sensing of conductive targets, even in harsh environments.
On-board modules	LDC1041 - inductance-to-digital converter that simultaneously measures an LC resonator's impedance and resonant frequency from Texas Instruments
Key Features	Low power consumption, short-range sensing technology, high durability, high flexibility, supports wide frequency range from 5kHz to 5MHz, high performance, reliability, and more
Interface	SPI
ClickID	No
Compatibility	mikroBUS
Click board size	L (57.15 x 25.4 mm)
Input Voltage	5V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click Boards™](#)

Downloads

[LDC 2 click 2D and 3D files](#)

[LDC1041 datasheet](#)

[LDC 2 Click schematic](#)

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