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

Pressure 19 Click

PID: MIKROE-5089

Pressure 19 Click is a compact add-on board that contains a board-mount pressure sensor. This board features the MLX90817, a factory-calibrated absolute pressure sensor delivering ratiometric analog output from Melexis Technologies. The MLX90817 comes with a configurable host interface that supports I2C serial communication and configurable signal processing (the user is allowed to process the output signal in analog or digital form). It measures pressure from 0.2 up to 3bar with a pressure accuracy of ±33mbar. Its DSP-based architecture using a 16bit microcontroller provides outstanding performance in terms of initial accuracy and assures operation in a temperature range of -40°C to +120°C, ensuring stable operation under extreme conditions. This Click board™ is suitable for automotive, industrial, and consumer pressure measurements.

Pressure 19 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).

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

Specifications

Type	Pressure
Applications	Can be used for automotive, industrial, and consumer pressure measurements
On-board modules	MLX90817 - absolute pressure sensor from Melexis Technologies
Key Features	Low power consumption, high accuracy, piezoresistive sensing principle, built-in temperature compensation function, allow to process the output signal in analog or digital form, system in package, factory calibrated, and more
Interface	Analog,I2C
ClickID	No
Compatibility	mikroBUS
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

mikroBUS™

mikroSDK

Click board™ Catalog

Click Boards™

Downloads

Pressure 19 click example on Libstock

MLX90817 datasheet

Pressure 19 click 2D and 3D files

Pressure 19 click schematic