

Ultra-Low Press Click



PID: MIKROE-4676

Ultra-Low Press Click is a compact add-on board containing a mountable gage pressure sensor for pneumatic pressure measurements. This board features the [SM8436](#), an I2C configurable ultra-low pressure sensor with high accuracy and long-term stability from [Silicon Microstructure SMI](#) (part of TE Connectivity). A state-of-the-art MEMS pressure transducer technology and CMOS mixed-signal processing technology produces a digital, fully conditioned, multi-order pressure and temperature compensated sensor like this available in a gage pressure configuration. It also features superior sensitivity needed for ultra-low pressure measurements ranging from 0 to 250Pa Differential / 500 Pa Gauge. Therefore, this Click board™ is suitable for differential pressure measurements found in pressure monitoring applications like building Fire safety systems, Isolation rooms and high purity work stations as well as positive pressure solutions found in Hospital surgical environments

Ultra-Low Press 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	Pressure
Applications	Can be used for pressure measurements in industrial, medical, and consumer applications, i.e., airflow, gas flow, and barometric air pressure
On-board modules	SM8436 - high precision, factory-calibrated pressure sensor for ultra-low pressure measurements ranging from 0 to 500Pa from TE Connectivity Measurement Specialties
Key Features	Ultra-low power consumption, high accuracy, long-term stability, pressure calibrated and temperature compensated output, superior sensitivity, and more.
Interface	I2C
ClickID	No
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

Downloads

[Ultra-Low Press click 2D and 3D files](#)

[SM8436 datasheet](#)

[Ultra-Low Press click schematic](#)

[Ultra-Low Press click example on Libstock](#)

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