

Accel&Pressure Click



PID: MIKROE-6028

Accel&Pressure Click is a compact add-on board representing a rate-of-climb sensing solution for your application. This board features the [FXLS8974CF](#), a 3-axis low-g accelerometer, and the [MPL3115A2](#), a precision pressure sensor with altimetry, both from [NXP Semiconductor](#). Those two sensors are high-performance, low-power devices covering all of Earth's surface elevations. By combining the acceleration and the barometric pressure data, you can easily determine the vertical velocity (the rate of climb) of the device on which the Accel&Pressure Click is integrated. This Click board™ makes the perfect solution for the development of vertical velocity applications and similar devices.

Accel&Pressure Click is fully compatible with the mikroBUS™ socket and can be used on any host system supporting the [mikroBUS™](#) standard. It comes with the [mikroSDK](#) open-source libraries, offering unparalleled flexibility for evaluation and customization. What sets this [Click board™](#) apart is the groundbreaking [ClickID](#) feature, enabling your host system to seamlessly and automatically detect and identify this add-on board.

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	Motion, Pressure
Applications	Can be used for the development of vertical velocity applications and similar devices
On-board modules	FXLS8974CF - 3-axis low-g accelerometer from NXP Semiconductor MPL3115A2 - pressure sensor with altimetry from NXP Semiconductor
Key Features	User-selectable full-scale measurement ranges, high precision, FIFO buffers, flexible sensor data change detection function, wide absolute pressure operating range, altitude measurements, temperature compensation, and more
Interface	I2C
ClickID	Yes
Compatibility	mikroBUS™
Click board size	S (28.6 x 25.4 mm)
Input Voltage	3.3V

Resources

[mikroBUS™](#)

[mikroSDK](#)

[Click board™ Catalog](#)

[Click boards™](#)

[ClickID](#)

Downloads

[FXLS8974CF datasheet](#)

[MPL3115A2 datasheet](#)

[Accel&Pressure click example on Libstock](#)

[Accel&Pressure click schematic](#)

[Accel&Pressure click 2D and 3D files](#)

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