

Diff Press 4 Click



PID: MIKROE-5868

Diff Press 4 Click is a compact add-on board that can measure differential pressure. This board features the [SM9336-BCE-S-250-000](#), a digital pressure and altimeter sensor module from [TE Connectivity](#). The SM9336-BCE-S-250-000 has a configurable host interface that supports I2C serial communication and measures pressure in a wide range with an accuracy of 3%. It comes as calibrated and temperature-compensated with high reliability/long-term stability. It operates in a compensated temperature range of -20°C to 85°C, ensuring stable operation under extreme conditions. This Click board™ makes the perfect solution for the development of weather station equipment, industrial, consumer applications, and similar applications that rely on accurate and reliable pressure monitoring.

Diff Press 4 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 the development of weather station equipment, industrial, consumer applications, and similar applications that rely on accurate and reliable pressure monitoring
On-board modules	SM9336-BCE-S-250-000 - digital pressure and altimeter sensor module from TE Connectivity
Key Features	Wide differential pressure range, low total error band after Autozero, 16-bit I2C digital interface, pressure calibrated and temperature compensated output, MEMS pressure transducer technology, and more
Interface	I2C
ClickID	Yes
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

[Diff Press 4 click example on Libstock](#)

[SM9336-BCE-S-250-000 datasheet](#)

[PCA9306 datasheet](#)

[Diff Press 4 click schematic](#)

[Diff Press 4 click 2D and 3D files](#)

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