

Diff Press 3 Click



PID: MIKROE-5771

Diff Press 3 Click is a compact add-on board that can measure differential pressure. It features the WSEN-PDUS (2513130810401), a differential pressure sensor from [Würth Elektronik](#). The sensor is MEMS based and uses a piezo-resistive sensing principle. It is a fully calibrated pressure sensor with 15-bit digital and 11-bit analog outputs. In addition to pressure measurement, the 2513130810401 WSEN-PDUS sensor also has an embedded temperature sensor. This Click board™ makes the perfect solution for the development of HVAC, filter monitoring, gas leak detection applications, and more.

Diff Press 3 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 HVAC, filter monitoring, gas leak detection, inhalers, and more
On-board modules	WSEN-PDUS (2513130810401) differential pressure sensor from Würth Elektronik
Key Features	Low power consumption, excellent accuracy, digital and analog readings, calibrated sensor, MEMS-based piezo-resistive principle, additional temperature sensor that can be used for temperature compensation, fast response time, and more
Interface	Analog,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

[PCA9306 datasheet](#)

[WSEN-PDUS \(2513130810401\) datasheet](#)

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

[Diff Press 3 click example on Libstock](#)

[Diff Press 3 click schematic](#)

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