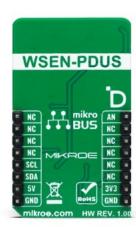


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Diff Press 3 Click





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 <u>Elektronik</u>. 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 <u>Click board™</u> 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.









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Specifications

Туре	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

<u>mikroBUS™</u>

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

