Diff Press 2 Click

PID: MIKROE-4894

Diff Press 2 Click is a compact add-on board that contains Sensirion's differential pressure sensor. This board features the SDP31, a small differential pressure sensor designed for high-volume applications. The SDP31 comes with a configurable host interface that supports I2C serial communication and measures pressure in a range from -500Pa up to +500Pa with an accuracy of 3%. It comes as calibrated and temperature compensated with high reliability/long-term stability, has the best signal-to-noise ratio. It operates in a temperature range of -40°C to 85°C, ensuring stable operation under extreme conditions. This Click board™ is suitable for weather station equipment, industrial, consumer applications, and similar applications which rely on accurate and reliable pressure monitoring.

Diff Press 2 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.

MIKROELEKTRONIKA D.O.O, Batajnički drum 23, 11000 Belgrade, Serbia
VAT: SR105917343 Registration No. 20490918
Phone: + 381 11 78 57 600 Fax: + 381 11 63 09 644 E-mail: office@mikroe.com
www.mikroe.com

Specifications

Type	Pressure
Applications	Can be used for weather station equipment, industrial, consumer applications, and similar applications which rely on accurate and reliable pressure monitoring
On-board modules	SDP31 - highly versatile differential pressure sensor designed for high-volume applications from Sensirion
Key Features	Low power consumption, measurement range ±500Pa, excellent accuracy and repeatability even below 1Pa, no zero-offset and drift, calibrated and temperature compensated, and more
Interface	I2C
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

SDP31 datasheet

Diff Press 2 click 2D and 3D files

Diff Press 2 click schematic

Diff Press 2 click example on Libstock