

# Differential Pressure Sensor Module

SEN0343

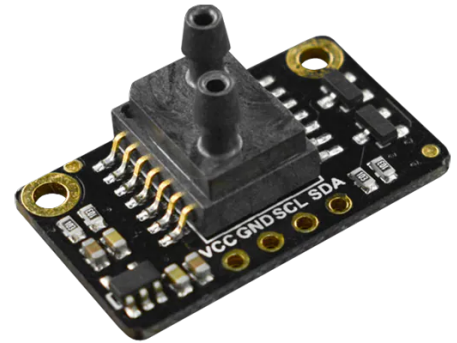
## Product Overview

07-26-2022

For the most up-to-date information, visit [www.mouser.com](http://www.mouser.com) or the supplier's website.

## Description

The DFRobot SEN0343 Differential Pressure Sensor Module is a high-resolution sensor with I<sup>2</sup>C communication is used to measure the difference in pressure across two points on a device. This pressure sensor module is encapsulated with a high-performance MEMS pressure chip and a special conditioning chip inside the sensor. The SEN0343 sensor module IC adopts a unique multi-stage temperature-compensation algorithm to reduce the effect of the environment on the sensor output. This differential pressure sensor module features multi-stage temperature-compensation algorithm. Applications include home medical care equipment, portable medical equipment, medical monitoring, industrial control, and a central ventilation system.



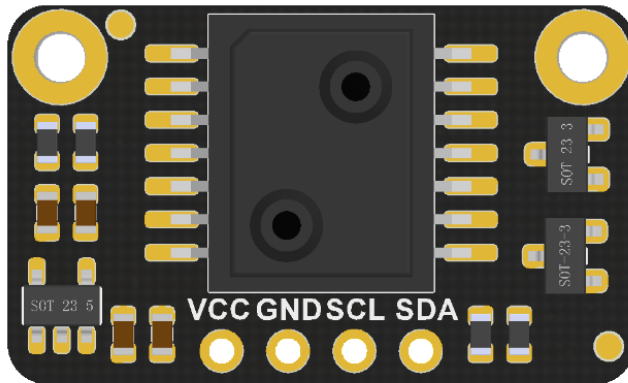
## Features

- Multi-stage temperature-compensation algorithm
- I<sup>2</sup>C digital output
- High resolution
- 3.3V to 5V operating voltage range
- $\pm 500\text{pa}$  ( $\pm 1.5\%$  FS) measuring range
- $< 5\text{mA}$  operating current
- $-40^{\circ}\text{C}$  to  $85^{\circ}\text{C}$  operating temperature range
- 14.5mm x 24mm dimensions

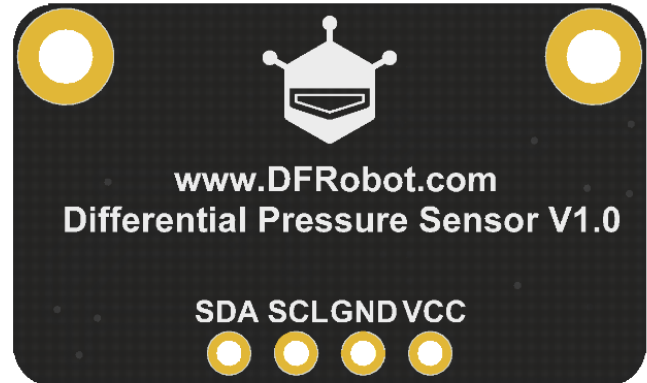
## Application

- Home medical care equipment
- Portable medical equipment
- Medical monitoring
- Industrial control
- Central ventilation system

## Board Overview



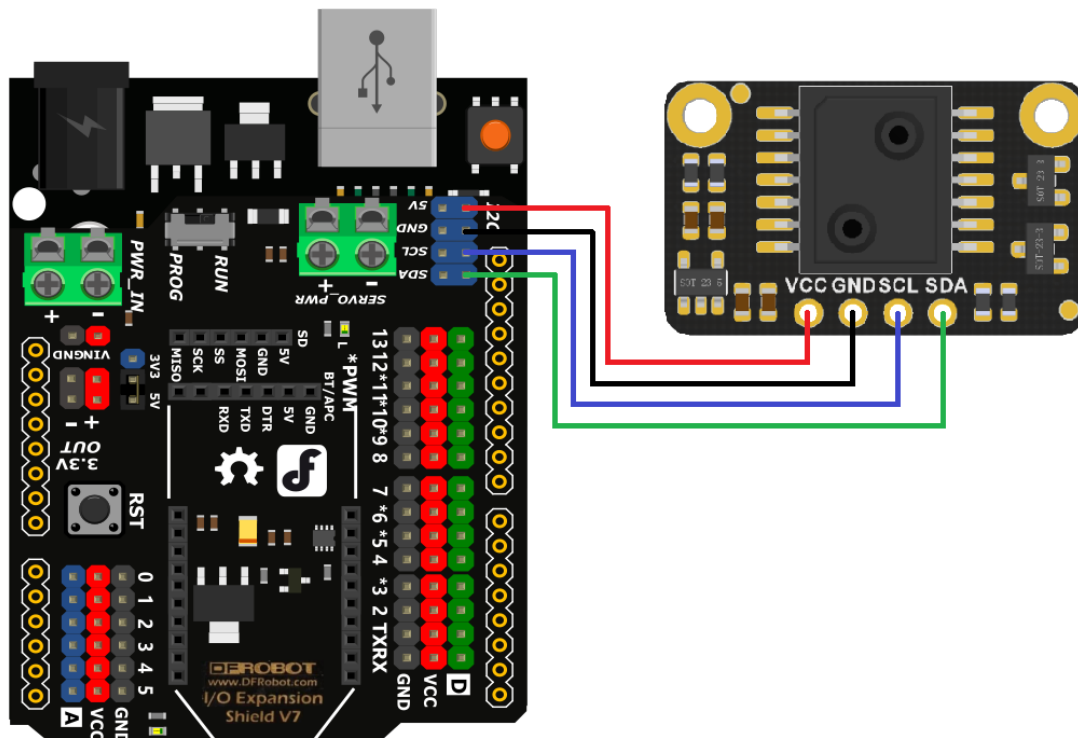
TOP



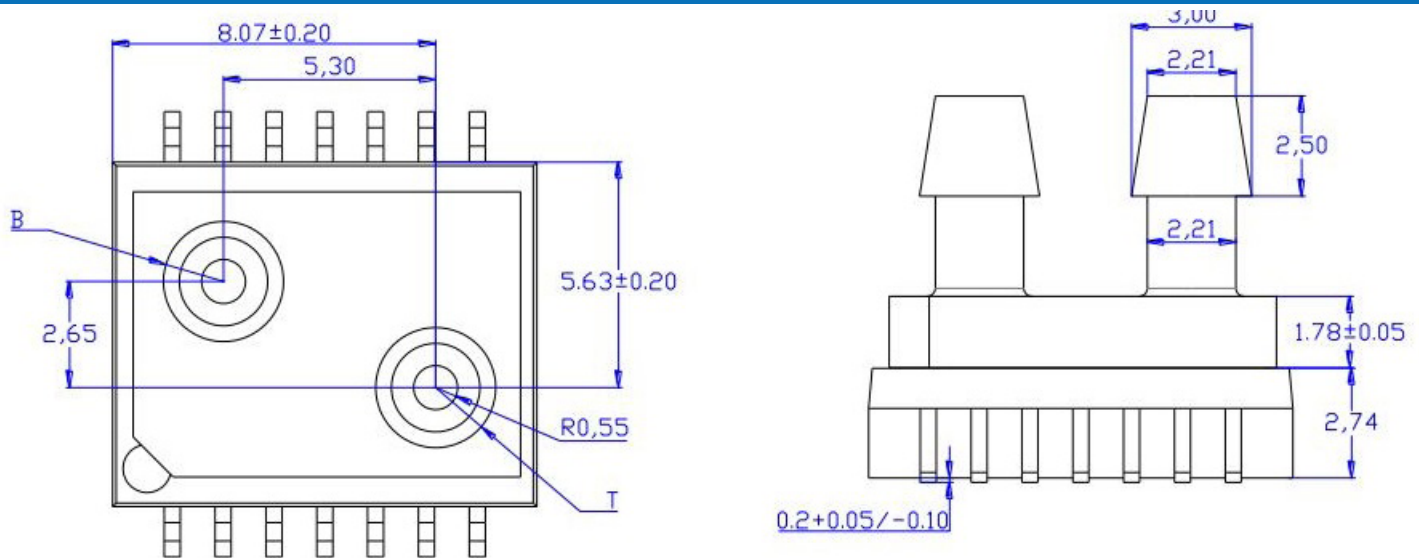
BOTTOM

Num	Label	Description
1	VCC	Positive
2	GND	Negative
3	SCL	I <sup>2</sup> C data line
4	SDA	I <sup>2</sup> C data line

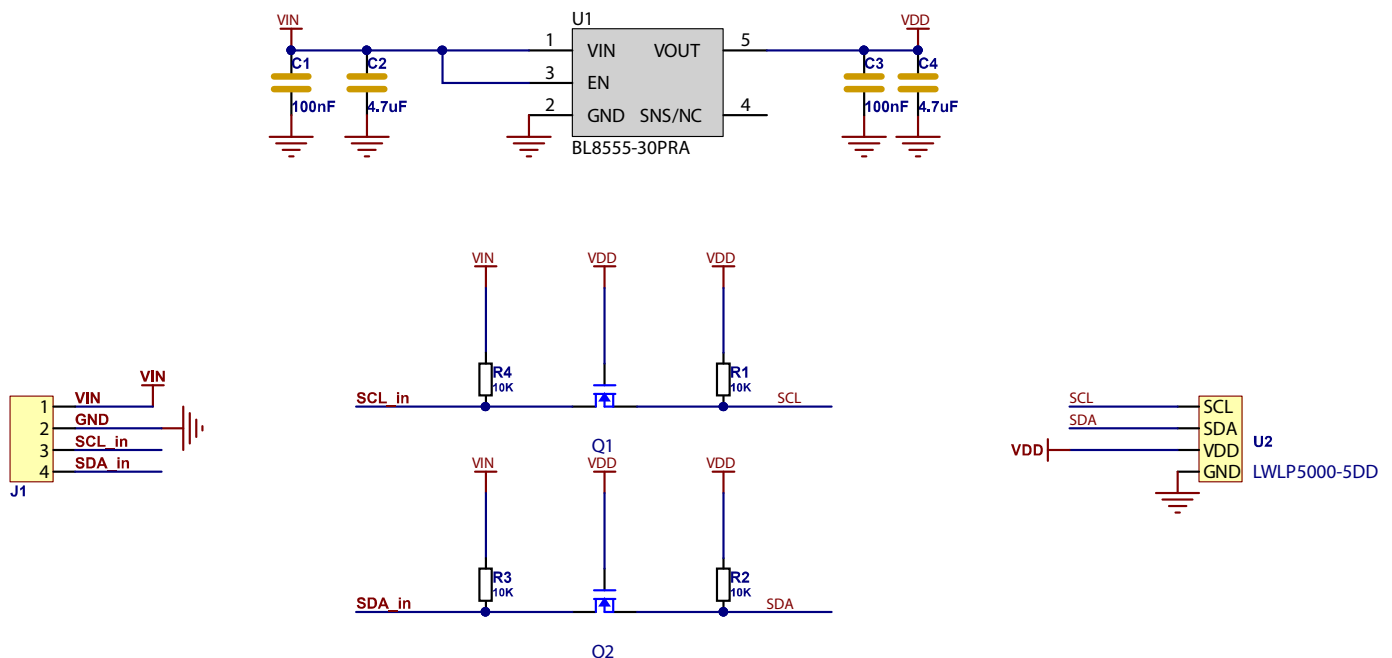
## Connection Diagram



## Mechanical Drawing



## Schematic



## Mouser Part Number

[View Part](#)

To learn more, visit <https://www.mouser.com/new/dfrobot/dfrobot-sen0343-differential-sensor/>