

Differential Pressure Sensor Module

SEN0343

Product Overview

07-26-2022

For the most up-to-date information, visit www.mouser.com or the supplier's website.

Description

The DFRobot SEN0343 Differential Pressure Sensor Module is a high-resolution sensor with I²C communication 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.



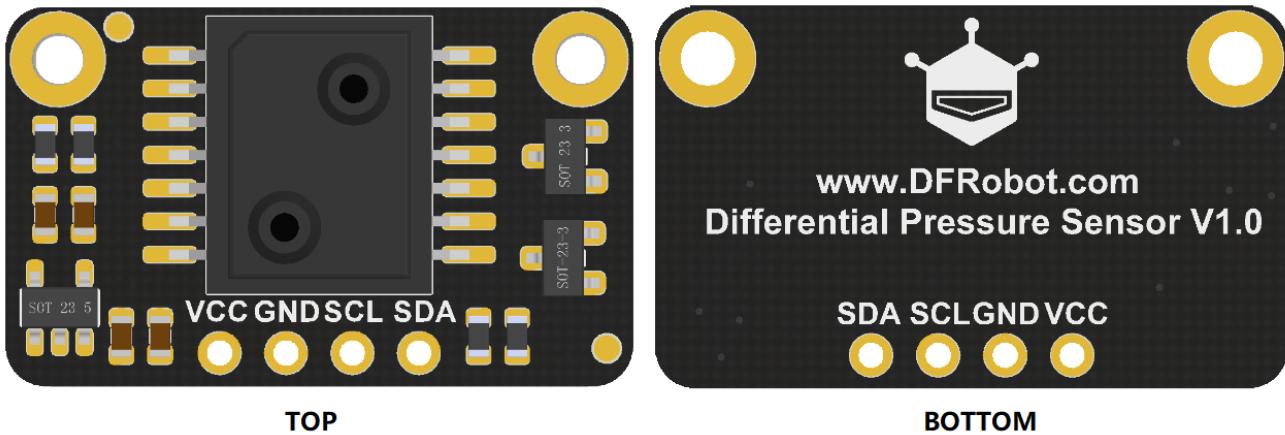
Features

- Multi-stage temperature-compensation algorithm
- I²C 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°C to 85°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

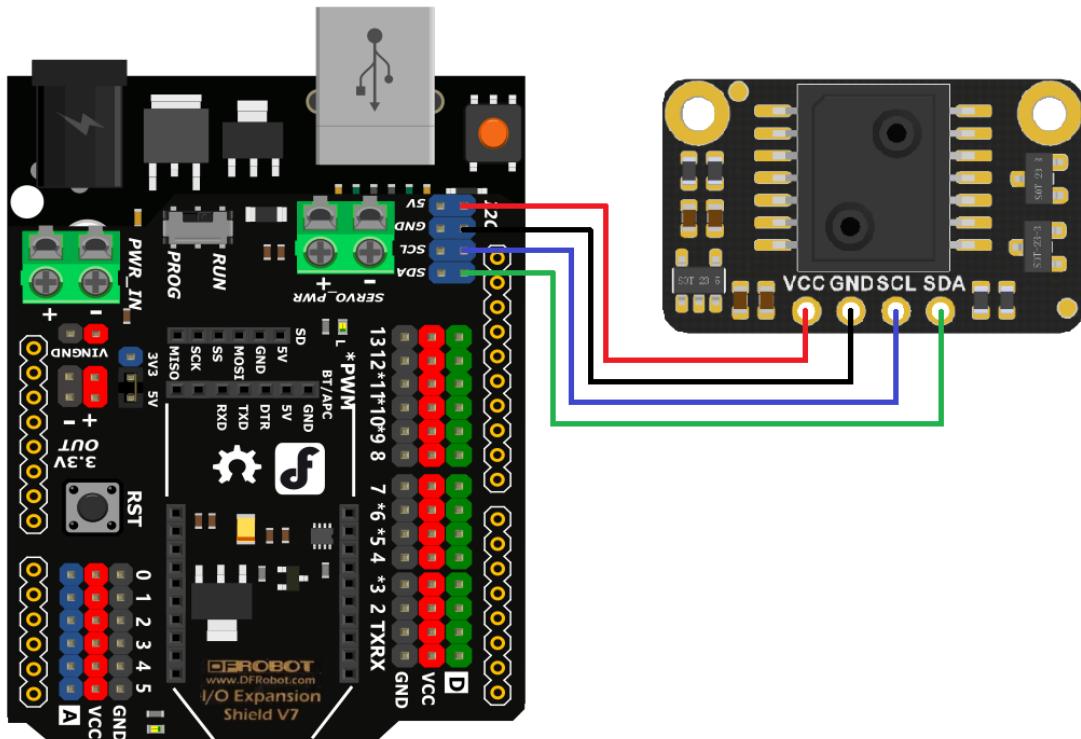


TOP

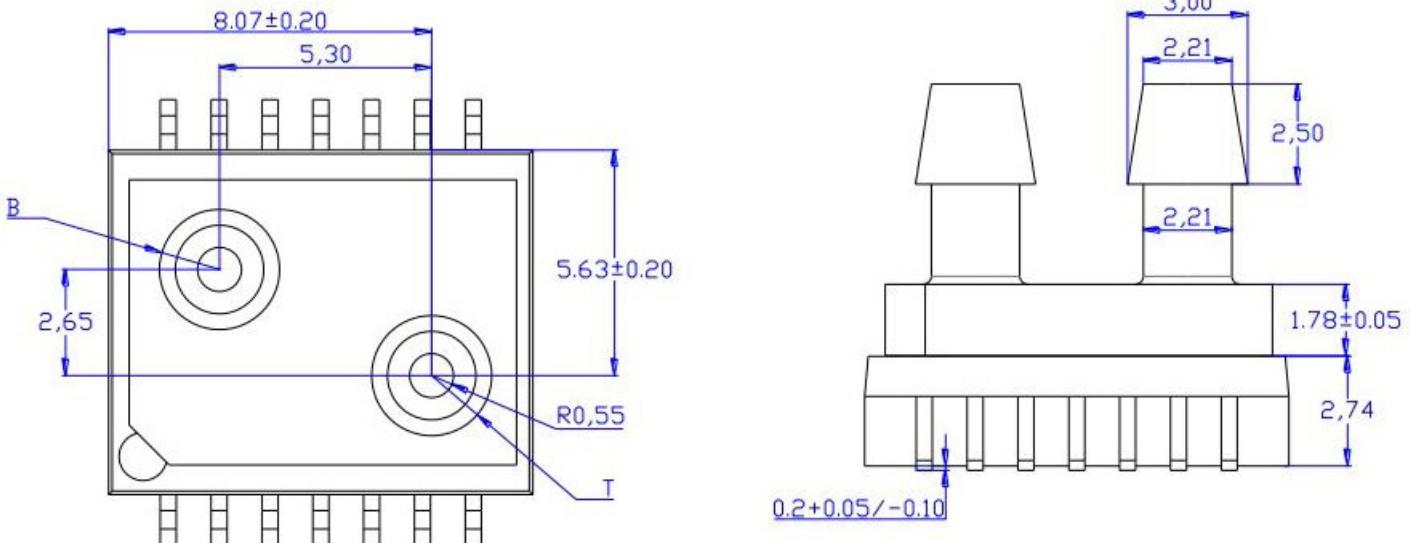
BOTTOM

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

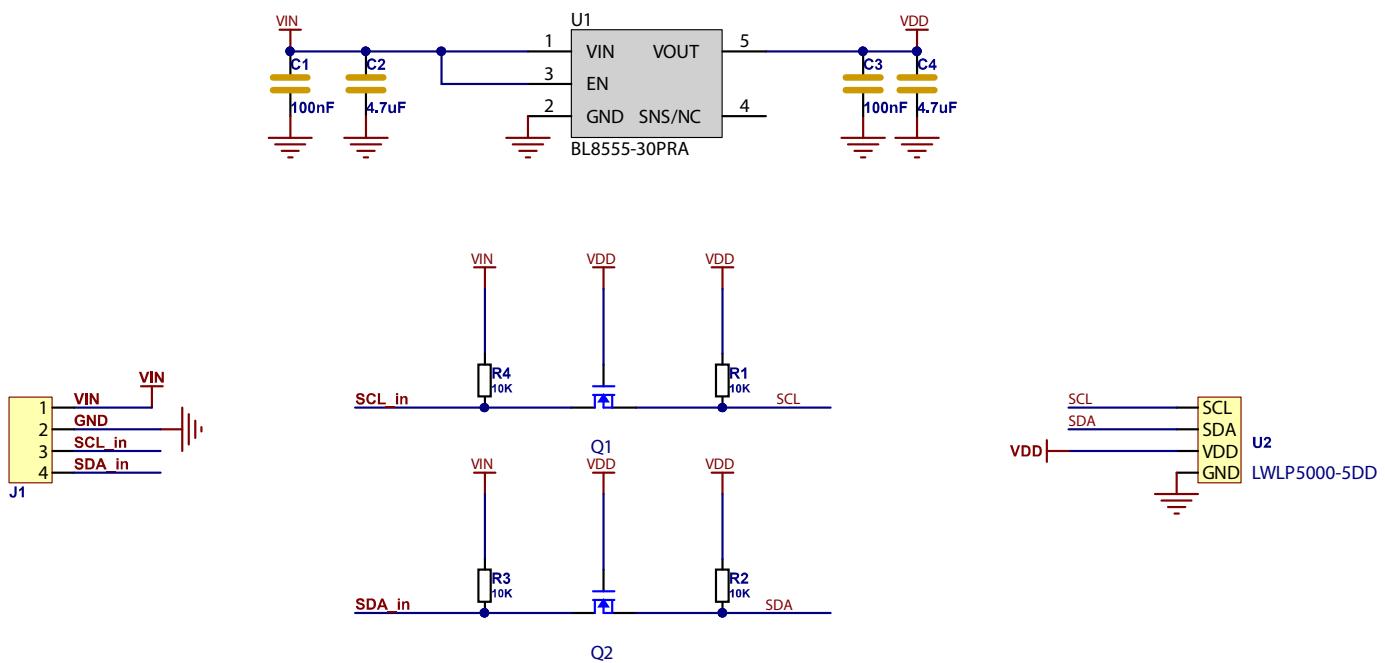
Connection Diagram



Mechanical Drawing



Schematic



Mouser Part Number

[View Part](#)

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