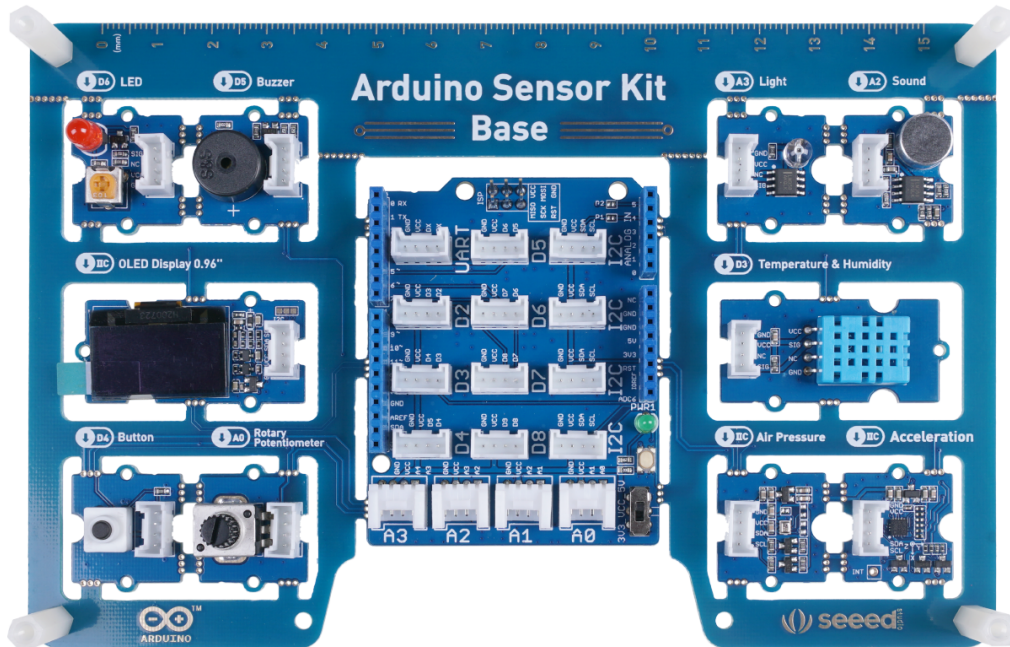


# Arduino Sensor Kit Brief

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**Arduino Sensor Kit - Base** is a joint production between Arduino and Seeed, which has the dual trademark of Arduino and Seeed. It integrates 10 Grove modules and one Grove Base Shield on a single PCB board. All these modules and base shield are already connected together via the wires on the PCB. This means that you only need to plug the Arduino Sensor Kit into the Arduino UNO or a compatible board (e.g. [SeeeduinoV4.2](#)) and connect directly to a computer, then you can start the programming and Arduino learning with all the sensors, actuators, and OLED displays on the Arduino Sensor Kit.

It's a game-changer in Arduino learning, no breadboard or other accessories, no soldering or wiring required. No need to pay attention to hardware connection, teachers can focus on Arduino code teaching. Without complicated electronic background knowledge, students even can complete their first Arduino project within five minutes! All those features make it a perfect Arduino Starter Kit for both classroom and online learning.



The Arduino Sensor Kit is an Arduino UNO shield kit based on the [Grove Beginner Kit](#). It has the exact same module and almost the same usage as the Grove Beginner Kit. The official Arduino team provides a high quality step-by-step tutorial for this kit. Just go to <https://sensorkit.arduino.cc/> and start your Arduino learning journey with Arduino Sensor Kit now.

## Part List

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### 10 Sensors/Modules Included

Both Arduino Sensor Kit and Grove Beginner Kit have the same 10 pre-wired modules.

1. [Grove - LED](#): Simple LED module
2. [Grove - Buzzer](#): Piezo Buzzer
3. [Grove - OLED Display 0.96"](#): 128×64 dot resolution High brightness,self-emission and high contrast ratio Big screen on a compact design Low power consumption.
4. [Grove - Button](#): Momentary Push Button
5. [Grove - Rotary Potentiometer](#): Adjustable Potentiometer
6. [Grove - Light](#): Detects surrounding light intensity
7. [Grove - Sound](#): Detects surrounding sound intensity
8. [Grove - Temperature & Humidity Sensor](#): Detects surrounding temperature and humidity values
9. [Grove - Air Pressure Sensor](#): Detects surrounding atmospheric pressure
10. [Grove - 3-Axis Accelerator](#): Detects object acceleration
11. 6 Grove Cables

## Specification

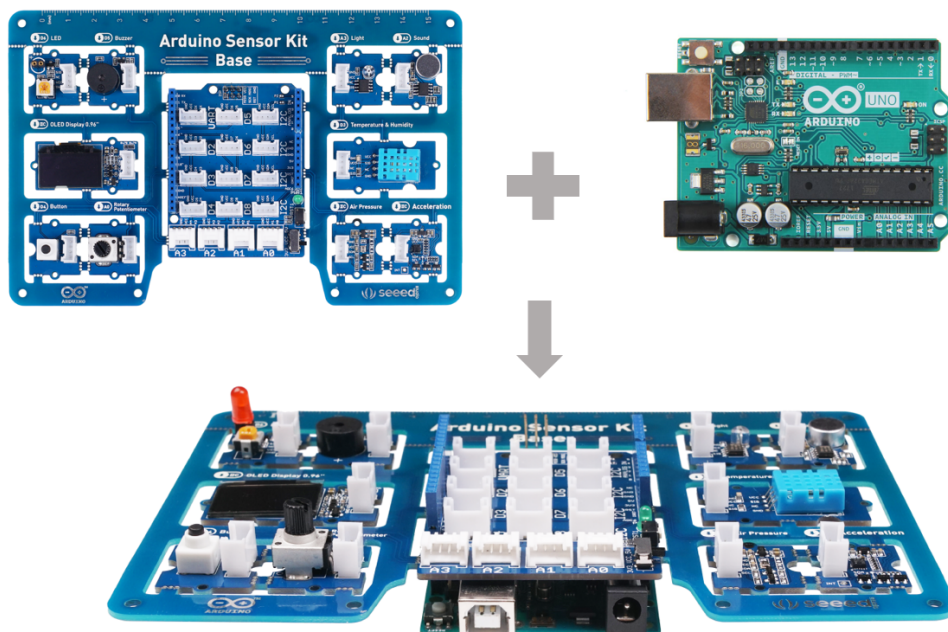
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Item	Value
Power Supply	3.3V/5V
Dimensions	175mm * 115mm * 28mm
Net Weight	77g
Digital Grove Header	7(D2,D3,D4,D5,D6,D7,D8)
Analog Grove Header	4(A0,A1,A2,A3)
I2C Grove Header	4
UART Grove Header	1
Support Arduino Core	Arduino UNO, Arduino Leonardo, Arduino Zero
Certification	FCC/CE

## Usage

Before you start, you need to prepare an Arduino Core Board. It could be a Arduino UNO/Zero/Leonardo or their compatible board.

Go to <https://sensorkit.arduino.cc/> to find the step-by-step tutorial for the Arduino Sensor Kit.



## Pin Map

The pin map for the two Kit's are as follows:

Modules	Port TYPE	Grove Beginner kit Pins	ARDUINO Sensor kit pins
LED	Digital	D4	D6
Buzzer	Digital	D5	D5
OLED Display 0.96"	I2C	I2C	I2C
Button	Digital	D6	D4
Rotary Potentiometer	Analog	A0	A0
Light Sensor	Analog	A6	A3
Sound Sensor	Analog	A2	A2
Temperature & Humidity Sensor	Digital	D3	D3
Air Pressure Sensor	I2C	I2C	I2C
3-Axis Accelerator Sensor	I2C	I2C	I2C