EXPERIMENT 1.2

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Subject Name: Internet of Things Lab
Subject Code: 21CSP-344

Aim : Identification of different sensors used in IoT applications.

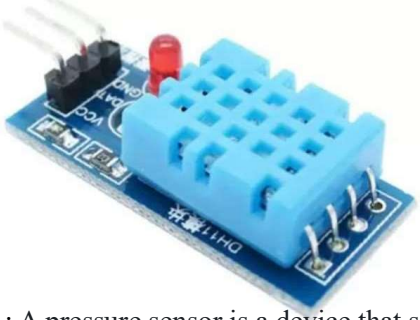
Objectives :

1. To study hardware related to IoT.
2. to understand and identify different sensors used in IoT.

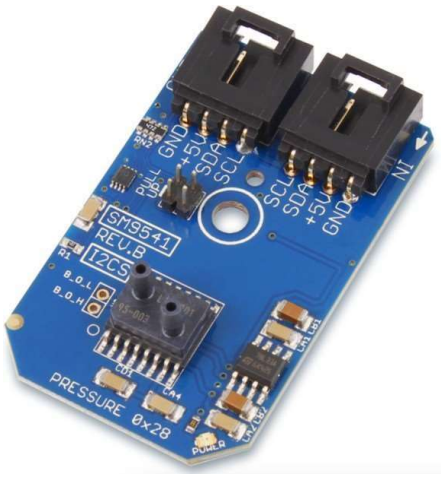
Hardware and Software : Various Sensors.

Description :

1. Temperature Sensor : A device, used to measure amount of heat energy that allows to detect a physical change in temperature from a particular source and converts the data for a device or user, is known as a Temperature Sensor.



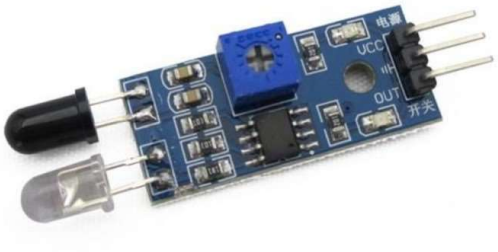
2. Pressure Sensor : A pressure sensor is a device that senses pressure and converts it into an electric signal. Here, the amount depends upon the level of pressure applied.



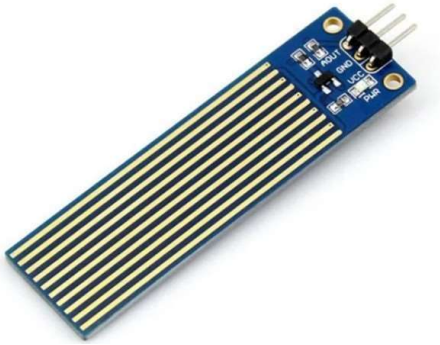
3. Gas Sensor : Gas sensors are similar to the chemical ones, but are specifically used to monitor changes of the air quality and detect the presence of various gases.

4. Smoke Sensor : A smoke sensor is a device that senses smoke (airborne particulates & gases), and it's level.

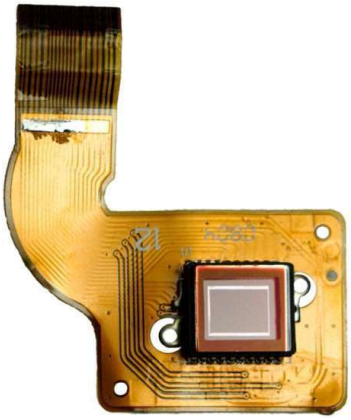
5. IR Sensor : An infrared sensor is a sensor that is used to sense certain characteristics of its surroundings by either emitting or detecting infrared radiation. It is also capable of measuring the heat being emitted by objects.



6. Level Sensor : A sensor which is used to determine the level or amount of fluids, liquids or other substances that flow in an open or closed system is called Level sensor.



7. Image Sensor : Image sensors are instruments which are used to convert optical images into electronic signals for displaying or storing files electronically.



8. Motion Detection Sensor : A motion detector is an electronic device which is used to detect the physical movement (motion) in a given area and it transforms motion into an electric signal; motion of any object or motion of human beings .