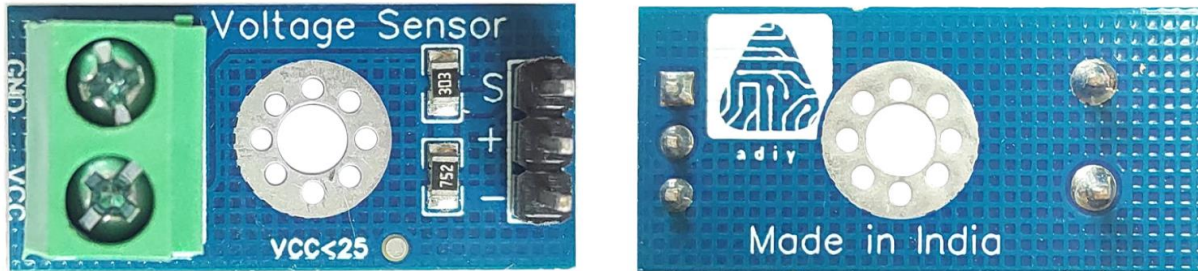


DC voltage Sensor Module (0V-25V)



Description:

ADIY dc voltage sensor is a conventional method used to determine, monitor, and measure the supply of voltage in a device. ADIY dc Voltage sensors can sense dc voltages. ADIY dc voltage sensors are highly precise sensors that work on the principle of the potential divider rule. As a result, it reduces the input voltage by a factor of 5. This allows us to use the analogue input pin of microcontrollers to observe the voltage above the threshold level. With a small compact device, both voltage and current measurement are combined to a single physical device. For 0-5v analogue input, the output measured up to 25v. ADIY dc voltage sensor consists of 5 pins in which two of which are on the two-pin screw terminal and three are male header pins.

Specifications:

1. Divider ratio: 5:1
2. Resistor Tolerance: 1%
3. Max input voltage: 25V
4. Resistor Value: 30K/7.5K Ohm
5. Voltage detection range: DC 0.02445V-25V
6. Voltage Analog Resolution: 0.00489V

Pin Description:

1. VCC: Positive terminal of the voltage to be measured (0-25V)
2. GND: Negative terminal of the voltage to be measured
3. S: Analog Input of Arduino
4. + : Not connected (N/C)
5. - : GND of Arduino

Advantages:

- The environment is conducive.
- Plenty of dynamic range.
- Non-satisfactory.
- Increases employee safety.
- Small in weight and size.
- The degree of accuracy is very high.

Applications:

- Detects power failure.
- Load sensing.
- Controls the temperature.
- Power demand control.
- Controls electricity demand.
- Safety switching.

