DYNAMIC SOLUTIONS

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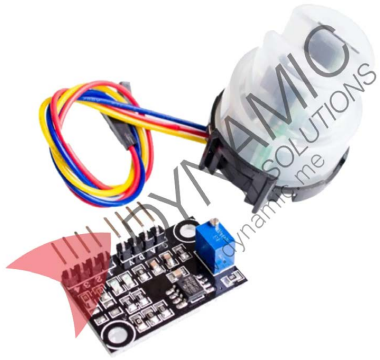
Water Turbidity Sensor



Features:

The Water Turbidity Sensor uses infrared light scattering and transmittance principles to measure the clarity of liquids. Suspended particles in water affect the amount of transmitted light, allowing this sensor to determine turbidity levels in real time. It outputs both analog and digital signals, enabling compatibility with Arduino, Raspberry Pi, and various microcontrollers. With its fast response and adjustable sensitivity, this module is suitable for environmental monitoring, industrial control, and water treatment applications. The compact design and low power consumption make it ideal for portable and embedded water analysis systems.

Specifications	
Sensing Method	Infrared Optical (Transmittance and Scattering)
Operating Voltage	5V DC
Working Current	≤ 40 mA
Response Time	< 500 ms
Output Modes	Analog 0–4.5 V, Digital (High/Low, Adjustable Threshold)
Turbidity Range	0–1000 ±30 NTU
Infrared Emitter Wavelength	940 nm
Phototransistor Wavelength	880 nm
Insulation Resistance	≥ 100 MΩ
Operating Temperature	–20 °C to +90 °C
Storage Temperature	–10 °C to +80 °C
Module Size	38.6 × 22.1 mm
Interface	Type XH2.54 Connector
Compatibility	Arduino, Raspberry Pi, PIC, 8051, and similar microcontrollers
Usage	Water quality and pollution monitoring, automation control, and IoT liquid analysis

Pinouts:

Pin Name	Type	Description
G	Input	Power negative (GND)
V	Input	Power positive (VCC 5V)
A	Output	Analog output (0–4.5 V)
D	Output	Digital output (High/Low, adjustable threshold)
1	Input	Sensor positive (+)
2	Output	Sensor signal output
3	Input	Sensor negative (-)
4	Input	Sensor negative (GND)

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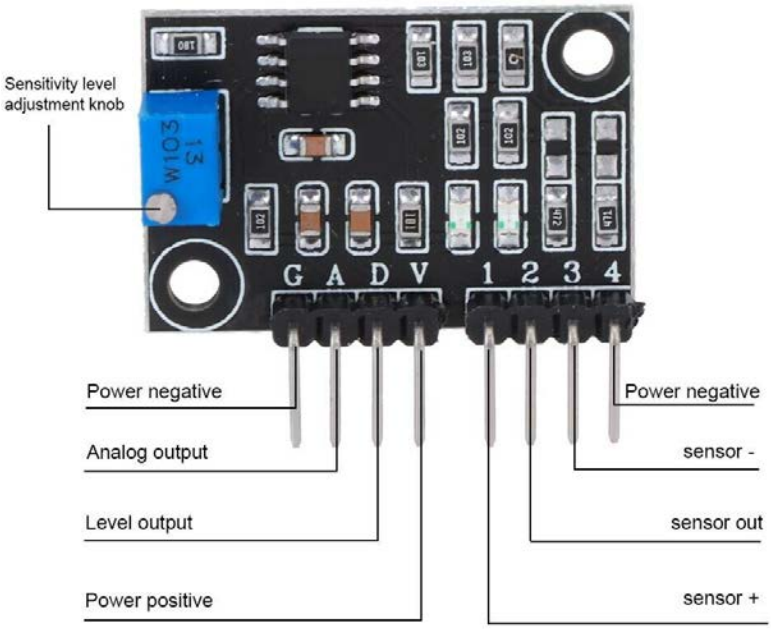

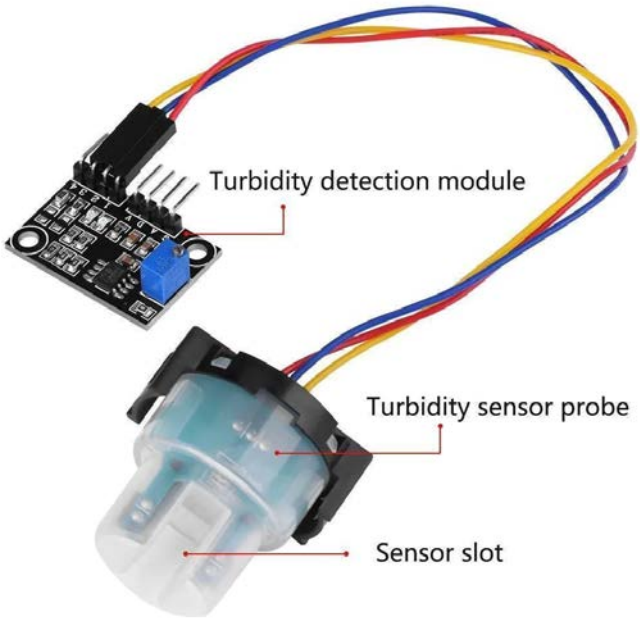

Product Picture: