

AQMS 5 IN 1

nodemcu esp8266 (Main Board)- Devnith



- The NodeMCU ESP8266 is a popular development board based on the **ESP8266 WiFi** module. It features a microcontroller unit (MCU) based on the ESP8266 chip, which integrates a 32-bit Tensilica microcontroller along with WiFi connectivity. The NodeMCU board is designed to simplify IoT (Internet of Things) development by providing an easy-to-use platform for building connected devices.

MQ -2 - kavinda



- The MQ-2 sensor is a type of gas sensor that is commonly used for detecting various types of gases such as **LPG, propane, methane, alcohol, smoke, carbon monoxide (CO), and other flammable gases**. It is widely used in gas leakage detection devices, industrial safety systems, and fire detection systems. The MQ-2 sensor operates on the principle of conductivity changes in its sensitive layer when it comes into contact with the gas being detected. This change in conductivity is then measured and converted into an electrical signal that can be interpreted by a microcontroller or other electronic devices.

DHT 22 – vilo



- The DHT22 is a popular digital temperature and humidity sensor that is frequently used in various electronic projects and IoT applications. It is an upgraded version of the DHT11 sensor, offering higher accuracy and a wider measurement range.
- The DHT22 sensor can measure temperatures ranging from -40°C to 80°C (-40°F to 176°F) and humidity levels from 0% to 100%.

MQ-131 Ozone – (50% working)---Rani



- The MQ-131 is a gas sensor specifically designed for the detection of ozone (O₃) in the air. Ozone is a highly reactive gas composed of three oxygen atoms (O₃) and is often found in the Earth's stratosphere where it forms the ozone layer, which absorbs most of the sun's ultraviolet (UV) radiation. However, ozone at ground level, also known as tropospheric ozone, can be harmful to human health and the environment, particularly at high concentrations.

PMS 7003 – (Receive power but doesn't transfer data)--- sadun



The PMS7003 is a laser-based particulate matter (PM) sensor designed for measuring airborne dust concentrations. It's commonly used in air quality monitoring systems, indoor air quality monitors, environmental monitoring stations, and HVAC systems to measure fine particulate matter pollution.

The PMS7003 sensor can detect particles in the air ranging from $0.3\mu\text{m}$ to $10\mu\text{m}$ in diameter. It provides readings for PM1.0, PM2.5, and PM10 concentrations, which represent particles of different sizes.

SGP 30 – not working



- The SGP30 is a multi-pixel gas sensor designed for detecting various volatile organic compounds (VOCs) and other gases such as carbon dioxide (CO₂) in indoor environments. It is manufactured by Sensirion, a leading sensor company.