

DHT11 Digital Temperature and Humidity Sensor Module

3.3V-5V for Arduino & Raspberry Pi

slug: dht11-digital-temperature-and-humidity-sensor-module-3-3v-5v-for-arduino-raspberry-pi



TECHNICAL SPECIFICATIONS & SUMMARY

[Temperature Sensor] The DHT11 Digital Temperature and Humidity Sensor Module is a reliable and cost-effective sensor designed to measure ambient temperature and relative humidity. It combines a capacitive humidity sensing element and a thermistor with a built-in digital signal processing unit, providing calibrated digital output directly to microcontrollers. In addition, the DHT11 offers stable performance and excellent long-term reliability, making it suitable for environmental monitoring and automation applications. As a result, it is widely used in weather stations, smart home systems, greenhouse monitoring, HVAC systems, and educational electronics projects. Because the module includes the required pull-up resistor, interfacing with microcontrollers becomes simple and straightforward. Furthermore, only three connections are required: VCC, GND, and Data Output. The sensor operates from a wide voltage range of 3.3V to 5.5V DC, ensuring compatibility with Arduino, Raspberry Pi, ESP32, STM32, NodeMCU, and other development boards. Moreover, readily available libraries and

UNIT PRICE (EX. GST)	WITH 18% GST
Rs. 65	Rs. 77

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