

# High-Precision Temperature and Humidity Sensor | OM-TH-DA801



This temperature and humidity sensor features a built-in high-precision sensing element with one integrated RS485 interface supporting Modbus RTU protocol for reliable data communication. Powered by an ARM processor and RTOS operating system, it ensures stable performance across a wide operating temperature range of -20°C to 75°C. Ideal for data center environment monitoring, server room micro-modules, enterprise server rooms, and any facility requiring accurate temperature and humidity supervision.

## Specifications

### Communication Interface

Interface Type	1 x RS485
Protocol	Modbus RTU
Surge Protection	600W surge protection
Overvoltage/Overcurrent Protection	5V / 200mA

### Measurement Specifications

Temperature Range	-20°C to 75°C
Temperature Accuracy	±0.3°C @ 25°C
Humidity Range	5% ~ 95% RH
Humidity Accuracy	±3% RH (20% ~ 80% RH @ 25°C)

### Mechanical & Features

Configuration	Mechanical button for settings
Probe Option	Supports external probe for prompt temperature and humidity response
Display Backlight	Button-activated or alarm threshold-activated backlight
Enclosure	Standard 86mm box design