

IP-Based Video Surveillance Access Control and Time Attendance

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## Digital Relative Humidity and Temperature Sensor AM2302

## 1. Feature&Application

- High precision
- Capacitive type
- Full range temperature compensated
- Relative humidity and temperature measurement •
- Calibrated digital signal

- Outstanding long-term stability
- Extra components not needed
- Long transmission distance, up to 100 meters
- Low power consumption
- 4 pins packaged and fully interchangeable

## 2. Description

AM2302 output calibrated digital signal. It applys exclusive digital-signal-collecting-technique and humidity sensing technology, assuring its reliability and stability. Its sensing elements is connected with 8-bit single-chip computer,

Every sensor of this model is temperature compensated and calibrated in accurate calibration chamber and the calibration-coefficient is saved in type of

programme in OTP memory, when the sensor is detecting, it will cite coefficient from memory. Small size & low consumption & long transmission distance (100 m) enable AM2302 to be suited in all kinds of harsh application occasions.

Single-row packaged with four pins, making the connection very convenient.

Model	AM2302
Power supply	3.3-5.5 V DC
Output signal	digital signal viA 1-wire bus
Sensing element	Polymer humidity capacitor
Operating range	humidity 0-100%RH; temp -40~80 C
Accuracy	humidity±2%RH (max ± 5%RH); temp±0.5 C
Resolution or sensitivity	humidity 0.1 %RH; temp 0.1 C
Repeatability	humidity ±1%RH; temp ±0.2 C °
Humidity hysteresis	±0.3%RH °
Long-term Stability	±0.5%RH/year °
Interchangeability	fully interchangeable

## 3. Technical Specification





