

## DM-HTS-I Relative-humidity & temperature sensor

- The DM-HTS-I temperature compensated humidity transmitter/sensor has been designed to meet the demand of energy-care, environmental protection, and air quality control.
- The polymer capacitive element based sensor is one of the most stable sensor available and no recalibration required.
- The 2-wire design provides an easy installation, decreasing cost of field wiring .
- The high accuracy cover full range from 0 to 100% RH, allowing precise measurement of the humidity over the operating temperature from -40 ~ 80 Celsius. Even condensation on the sensor will not harm it.
- Each transmitter is calibrated in our computer operated atmospheric simulation chamber.
- The outstanding accuracy over the entire range is based on very precise calibration methods and on the latest microprocessor technology. Well-proven Aosong polymer capacitive humidity sensor ensure excellent long-term stability.



### Technical Specification:

Model	DM-HTS-I - AQ3105/3010
Power supply	12~36V DC(0~5V out)/15~36V DC(0~10V out)
Operating humidity range	0..100%RH
Sensing element	Polymer capacitor
Signal output for humidity	0~5V DC or 0~10V DC
Accuracy of humidity	+/-2%RH
Repeatability	+/-0.3%RH
Hysteresis	+/-0.3%RH
Sensitivity for humidity	0.1%RH
Drift rate per year	+/-0.5%RH
Temperature sensor	DS18B20
Accuracy for temperature	+/-0.2Celsius(at 25Celsius)
Output for temperature	0~5V DC or 0~10V DC
Measuring temperature range	Customer can select measuring temperature range by dialing switches on PCB board: 0~50Celsius, -20~80Celsius, -40~60Celsius
Storage temperature range	-50..80Celsius
Case	ABS
Electrical connection	Screw connector Max1.5mm <sup>2</sup>