

AirySense™-T: SMART TEMPERATURE SENSOR
AirySense™-TH: SMART TEMPERATURE & HUMIDITY SENSOR

General Description:

AirySense™-TH is a Smart Temperature and Humidity Sensor which can be connected on standard Building Automation Networks. These can be used for monitoring ambient environmental conditions for monitoring and control.



Applications:

- Monitoring of Ambient Temperature and Humidity at Solar Power Plants, Control Rooms, Machinery Room, Remote Unmanned Stations, Buildings and Complexes, Warehouses, Cold Storage areas, Hospitals, etc.
- Monitoring of Temperature and Humidity inside the Server racks, and Data Centres
- Can be integrated with Zone Thermostats for monitoring and control of Temperature and Humidity remotely.

Salient Features:

- AirySense™-TH provides smart monitoring of ambient Temperature and Humidity in clean and unclean environments.
- AirySense™-TH is based on semiconductor based monolithic precision sensor with low drift and hysteresis and excellent long term stability
- AirySense™-TH are optionally provided with analog inputs to accept standard signals from external sensors
- AirySense™-TH communicates on standard Modbus RTU protocol on RS485 multidrop networks with field configurable device address and baud rates
- Adding more sensors is very easy; the network can support up to 30 more sensors.
- AirySense™-TH is designed to be robust for usage in hostile conditions
- Packaged in industrial grade metallic enclosure with DIN rail mounting

Specifications:

Temperature Measurement:

Range	-35 to +85 deg C
Resolution	0.1 deg C
Accuracy	± 0.5 deg C
Response Time	<120 Sec

Relative Humidity Measurement:

Range	0 to 100 %RH
Resolution	0.1 %RH
Accuracy	± 2 %RH
Response Time	<120 Sec

Serial Communication:

Protocol	Modbus RTU
Device ID	1 to 32, DIP Switch Configurable
Physical Layer	RS485 Half Duplex
Maximum Devices	32
Maximum Length	Up to 1000m
Baud Rate (BPS)	9600, 19200, 38400, 57600, DIP Switch Configurable
Protection	Short Circuit
ESD	Complaint as per IEC 61000-4-2 Level 3 (Contact Discharge: 8kV, Air Discharge: 15kV)
Connectors	Screw Terminals
Modbus response time	1 – 2 Sec

Power:

Input Voltage	12-24VDC (Nominal 24VDC)
Power Consumption	< 200mW
Protection	Overvoltage, Short Circuit, Reverse Polarity
ESD	Complaint as per IEC 61000-4-2 Level 3 (Contact Discharge: 8kV, Air Discharge: 15kV)
Connectors	Screw Terminals

Mechanical:

Enclosure	Polymer
Mounting	Wall mount
Dimensions	66mm (W) x 103mm (H) x 43mm (D)
Weight	~ 100g

Environmental:

Operating Temperature	-35 to 85 deg C
Operating Humidity	0 to 100 %RH
Ingress Protection	IP 30

Order Code:

Part Number	Sensor	Protocol
AirySense-T / MB	Temperature	Modbus RTU
AirySense-TH / MB	Temperature, Humidity	Modbus RTU

Contact:

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