

AirySense™-TH V2: 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:

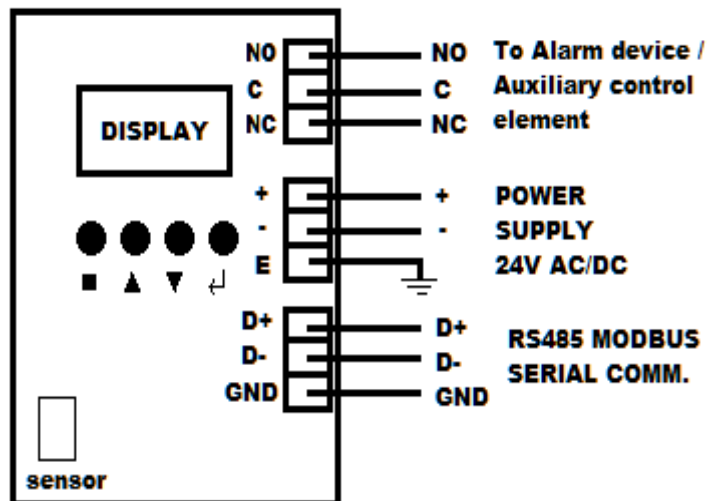
- Monitoring of Ambient Temperature and Humidity at Solar Power Plants, Control Rooms, Machinery Room, Remote Unmanned Stations, Buildings and Complexes, Warehouses, Cold Storage areas, Hospitals, etc.
- Monitoring of Temperature and Humidity inside the Server racks, and Data Centres
- Can be integrated 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 communicates on standard Modbus RTU protocol on RS485 multi-drop 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 wall mounting.

Connection diagram



Specifications:

<p><u>Temperature Measurement</u></p> <p>Range : -35 to +85 °C Resolution : 0.1 °C Accuracy : ± 0.5 °C Response Time: 5 – 30 sec</p>	<p><u>Relative Humidity Measurement:</u></p> <p>Range : 0 to 100 %RH Resolution : 0.1 %RH Accuracy : ± 2 %RH Response Time: ~ 20 sec</p>
<p><u>Relay Output:</u></p> <p>Channels : SPST-01 NO Contact Rating : 230VAC / 120VDC, 2A Response Time : 50ms Set point for Switching: Temp (°C) or Temp (°F) Or Humid (%RH) Hysteresis : ±9.9 Connectors : Screw Terminals</p>	<p><u>Power supply:</u></p> <p>Sensor Input Voltage : 24V AC/DC +/- 10% Power Consumption : < 200mW Protection : Overvoltage, Short Circuit, Reverse Polarity ESD: Compliant as per IEC 61000-4-2 Level 3 (Contact Discharge: 8kV, Air Discharge: 15kV) Connectors : Screw Terminals</p>
<p><u>Serial Communication:</u></p> <p>Protocol : Modbus RTU Device ID : User configurable from HMI Physical Layer : RS485 Half Duplex Maximum Devices : 31 Maximum Length : Up to 1000m Baud Rate (BPS) : 9600, 19200, 38400, 57600 Response Time : 1-2 sec Protection : Short Circuit ESD : Compliant as per IEC 61000-4-2 Level 3 (Contact Discharge: 8kV, Air Discharge: 5kV) Connectors : Screw Terminals</p>	
<p><u>Environmental:</u></p> <p>Operating Temperature: -35 to 85 °C Operating Humidity : 0 to 100% RH Ingress Protection : IP 20</p>	<p><u>Mechanical:</u></p> <p>Enclosure : Aluminium, Powder coated Mounting : Wall mount Dimensions : 88 (W) x125 (H) x30 (D) (mm) Weight : ~ 200g</p>

Order Code:

Part Number	Display	Relay	Protocol	Port
Airysense-V2-TH-CO2/MB	--	--	Modbus RTU	RS485 serial port
Airysense-V2-TH-CO2/MB-R	--	✓	Modbus RTU	RS485 serial port
Airysense-V2-TH-CO2/MB-D	✓	--	Modbus RTU	RS485 serial port
Airysense-V2-TH-CO2/MB-DR	✓	✓	Modbus RTU	RS485 serial port

Contact us:

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