Accurate Temperature & Humidity Measurement in Cleanrooms

TH1-ECO

In cleanrooms where production is carried out with electronic precision, accurate temperature control is a critical parameter.

- Increased Production Quality
- Controlled Contamination
- Accurate Temp & Humidity Measurement
- Suitable for Sensitive Industries
- Compliant with Clean Room Standards
- Direct Control System Integration

Stable humidity and temperature control in cleanrooms – ESD protection and intact TH1-ECO safety

In cleanrooms, environmental conditions directly affect production quality and the electrostatic safety of boards and sensitive components. The TH1-ECO transmitter, with accurate ambient monitoring, helps the control system maintain temperature and humidity within the standard range.

- Increased Production Quality
- Stable Environmental Monitoring
- Precise Condition Control
- Control System Integration
- Prevention of Electrostatic Discharge
- Ideal for the Electronics Industry

Ensure Product Quality and Safety in Food Processing Plants and Preserve the Cold Chain with the TH1 Sensor

In food processing plants, accurate control of temperature and humidity is essential for product quality, compliance with health standards, and waste prevention. The TH1-ECO sensor, by sending accurate environmental data to the control system, enables continuous process monitoring.

1. Waste Reduction

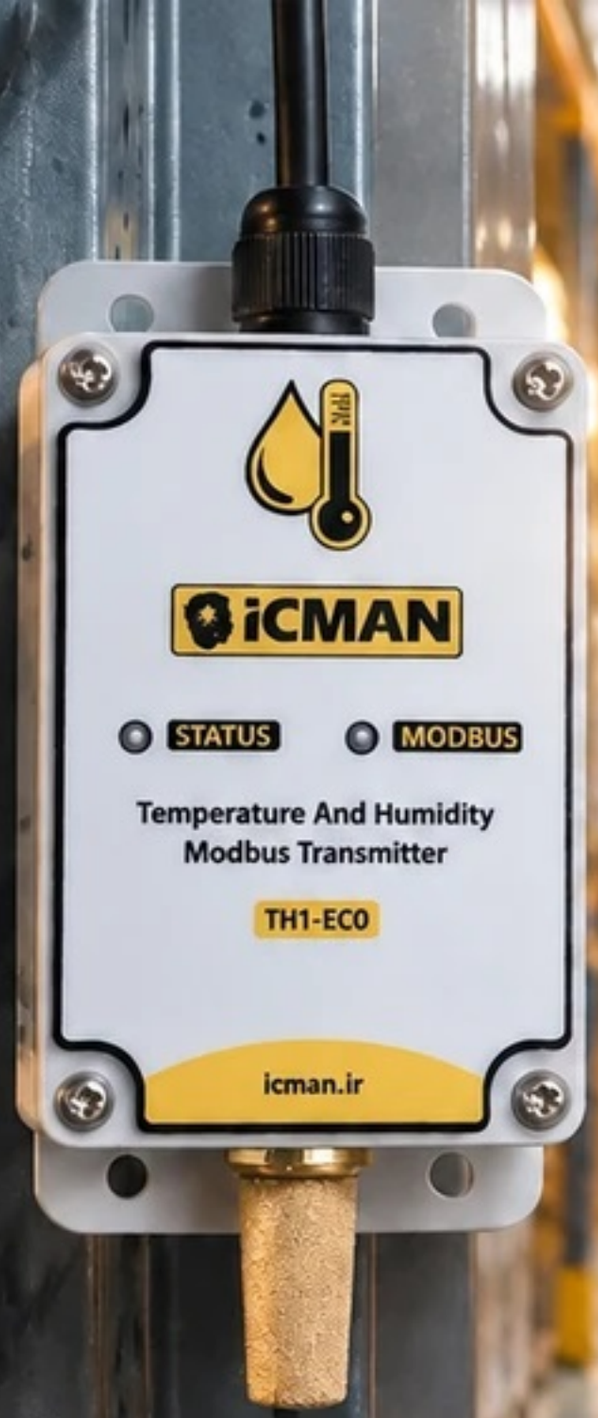
2. Food Quality Preservation

3. Suitable for Various Industries

4. Continuous Process Monitoring

5. Connection to Automation Systems

6. Compliance with Health Standards



Precise temperature and humidity monitoring in food warehouses prevents the spoilage of raw materials and food products, increases shelf life, and reduces costs with the TH1-ECO sensor.

The TH1-ECO sensor, by sending data to the central monitoring system, enables precise control of storage conditions and timely detection of abnormal temperature and humidity.

- Reduced Waste
- Continuous Environment Monitoring
- Food Quality Preservation
- Increasing Product Shelf Life
- Suitable for Food Warehouses
- Integration with Monitoring System

Continuous monitoring of temperature and humidity in hospitals and medical centers, with IoT connectivity and full integration with BMS using the TH1-ECO sensor.

In hospitals, maintaining controlled conditions is vital for patient health and the accuracy of medical equipment. The TH1-ECO sensor, by continuously monitoring temperature and humidity and sending data to the building management system, enables rapid response and precise environmental control.

- Continuous Temperature & Humidity Monitoring
- BMS Integration
- Improved Patient Condition Control
- Suitable for Medical Centers
- HVAC System Control
- Increased Medical Equipment Safety

Precise temperature and humidity monitoring in industrial cold storage with TH1-ECO sensor

In cold storage facilities for food products, accurate temperature and humidity control is vital for preserving product quality and extending shelf life. The TH1-ECO transmitter continuously measures storage conditions and sends data to the central monitoring system, helping maintain ideal preservation conditions.

- Accurate Storage Temperature Monitoring
- Logging of Envivonmental Data
- Prevention of Food Product Spoilage
- Extended Product Shelf Life
- PLC or SCADA System Connectivity
- Ideal for Cold Storage Facilities

Continuous Temperature and Humidity Monitoring in Poultry Houses with TH1-ECO Sensor

In poultry houses, precise control of temperature and humidity directly impacts flock health, feed conversion ratio, and farm productivity. The TH1-ECO transmitter sends real-time climate data to the control system, enabling intelligent ventilation adjustment and creating optimal conditions for bird growth.

- Reduced Mortality
- Ventilation Control
- Environment Monitoring
- Increased Productivity
- Suitable for Poultry Houses
- Conditions for Poultry Growth

Continuous Temperature and Humidity Monitoring in Industrial Workshops to Enhance Safety and Increase Equipment Productivity with TH1-ECO Sensor

In industrial workshops, the TH1-ECO sensor continuously measures temperature and humidity, providing accurate and reliable data. This helps prevent potential hazards, protects equipment, and increases productivity in the workplace, making the industrial environment safer and more efficient.

- Reduction of Environmental Hazards
- Environmental Monitoring
- Increased Equipment Productivity
- Enhanced Workplace Safety
- Suitable for Industrial Workshops

Preserving Written Heritage and Historical Documents Against Temperature and Humidity Fluctuations with TH1-ECO Smart Monitoring

In libraries, archives, and cultural heritage centers, maintaining stable temperature and humidity is essential to protect valuable documents and historical records. TH1-ECO provides accurate, continuous monitoring of temperature and humidity, helping to prevent damage and ensure the long-term preservation of irreplaceable cultural assets.

- Preserves Historical Documents and Archives
- Protects Cultural Heritage and Museums
- Monitors Temperature & Humidity
- Suitable for Libraries, Archives and Collections
- Prevents Mold and Biological Damage
- Enables Continuous Monitoring and Alerts

Monitoring and controlling temperature and humidity in industrial dairy cattle housing reduces heat stress, improves milk yield and health, and increases herd comfort and welfare — with the TH1-ECO.

TH1-ECO.

In industrial dairy farms, controlling environmental conditions is critical for maintaining livestock health. The TH1-ECO sensor, by continuously monitoring temperature and humidity and sending data to the central control system, enables precise ventilation control and heat stress reduction in livestock.

- Increased Livestock Comfort
- Heat Stress Reduction
- Improved Ventilation Control
- Environmental Condition Monitoring
- Integration with Control Systems
- Suitable for Large Dairy Farms

Preserve Heritage and Protect Artifacts from Deterioration with the TH1-ECO Sensor

In museums, precise control of temperature and humidity is vital for the long-term preservation of artifacts. The TH1-ECO sensor, with its accurate environmental condition monitoring, helps conservation systems maintain conditions suitable for preserving the museum's national assets.

- Increased Artwork Lifespan
- Suitable for Museums
- Protection of Temperature and Humidity
- Preservation of Historical Artifacts
- Connection to Monitoring Systems
- Control of Environmental Conditions

Continuous Temperature and Humidity Monitoring in Pharmaceutical Lines to Comply with GMP Standards and Accurate Data Logging with TH1-ECO Sensor

In pharmaceutical manufacturing industries, precise control of environmental conditions is essential to comply with production standards. The TH1-ECO sensor helps maintain standard conditions in production halls and raw material warehouses by continuously measuring temperature and humidity and transmitting data to the plant control system.

- GMP Standards Compliance
- Pharmaceutical Production Environment Control
- Data Logging for Quality Reports
- Suitable for Pharmaceutical Industries
- Accurate Environmental Monitoring
- Connection to Plant Control System

Continuous temperature and humidity monitoring in plastics manufacturing – Higher molding quality with direct automation integration with TH1-ECO sensor

In plastics production, ambient conditions directly affect molding quality and output. The TH1-ECO transmitter monitors temperature and humidity in the production area and sends data to the plant control system, helping maintain stable process conditions.

- Improved Product Quality
- Real-Time Area Monitoring
- Plant Climate Control
- Reduced Production Errors
- Automation System Integration
- Suitable for Plastics Industry

Accurate and **robust** monitoring of temperature and humidity for your laboratory and research equipment, with reliable data transmission and easy installation.

TH1-ECO

The **TH1-ECO** temperature and humidity sensor for your laboratory and research environments is a robust and reliable device. With its accurate readings and easy setup, it delivers the needed data for your laboratory, continuously.

- Environmental Data Logging
- Increased Test Accuracy
- Monitoring System Integration
- Suitable for Research Environments
- Reliable Laboratory Condition Assurance
- Stable Laboratory Climate Control

Introducing the most **accurate** and **robust** water and humidity sensor for data centers and IT infrastructure

TH1-ECO

In data centers and server rooms, where temperature and humidity control is critical, the TH1-ECO is a high-precision, low-cost RS-485 sensor that delivers accurate and reliable measurements of temperature and humidity, and is compatible with PLC systems. It is easy to install, and its durable design ensures long service life in harsh environments.

- High Measurement Accuracy
- Easy Installation
- Compatible with BMS Systems
- High Durability
- Compatible with IT Equipment
- Industrial Grade Electronics

Advanced Datalogger for Greenhouses and Hydroponics with TH1-ECO

In greenhouses and hydroponic systems, monitoring temperature and humidity is essential for optimal growth and productivity. The TH1-ECO, a Modbus RTU device, offers a reliable and accurate solution for tracking environmental conditions. With its user-friendly design and easy integration, this device ensures precise data collection and helps you create the ideal environment for your crops.

Key Features

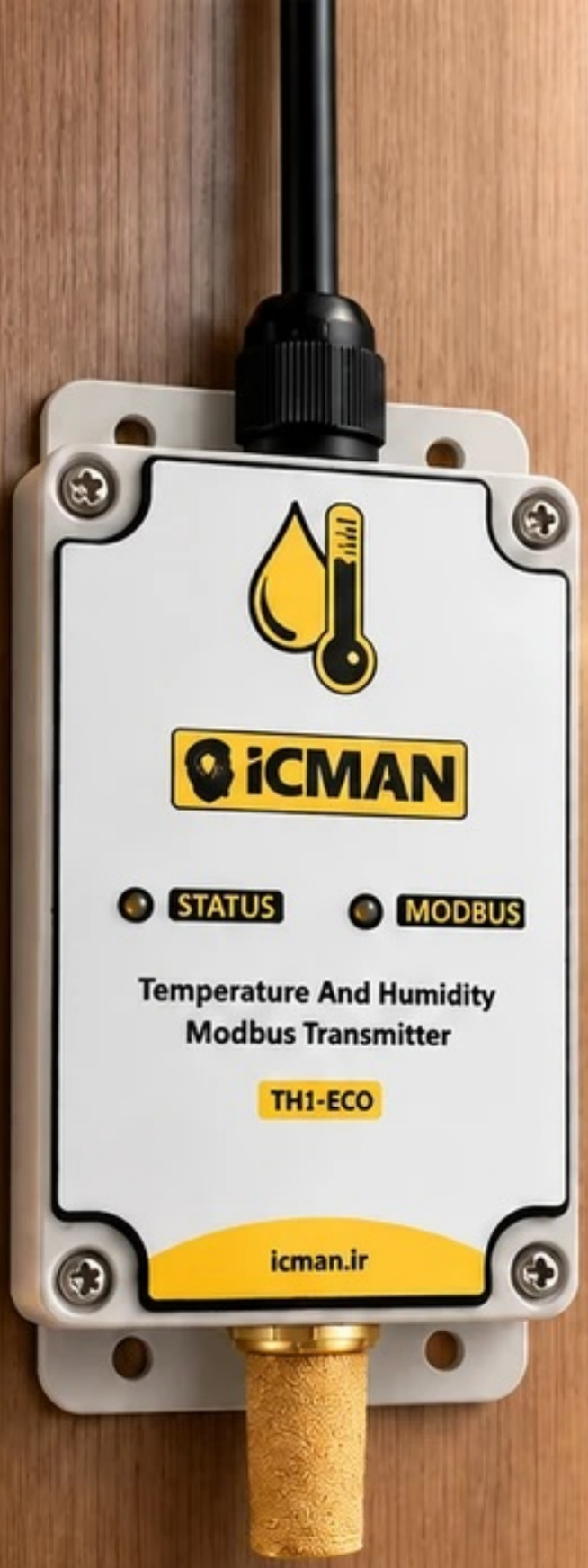
- High accuracy temperature and humidity sensor
- Modbus RTU communication protocol
- Easy installation and setup
- Reliable performance in harsh environments
- RS-485 output (PLC and control systems)
- Suitable for greenhouses and hydroponic systems

Smart office buildings:

In the HVAC systems of modern office buildings, optimizing energy consumption with the BMS and accurate environmental monitoring with the TH1-ECO sensor is of great importance.

The TH1-ECO sensor, by transmitting temperature and humidity data to the BMS over the Modbus network, helps optimize HVAC systems and maintain office comfort.

- **Reduced Energy Consumption**
- **Improved HVAC Comfort**
- **Increased Employee Well-being**
- **BMS Integration**
- **Precise Condition Monitoring**
- **Suitable for Modern Buildings**



High Precision Temperature and Humidity Monitoring Device TH1-ECO

In industrial and commercial environments, the TH1-ECO temperature and humidity transmitter provides accurate and reliable measurements. Designed with the latest technology, it uses Modbus communication protocol to deliver data quickly and precisely, helping you monitor your environment efficiently and effectively.

- High Accuracy Measurement
- Easy Installation
- Built-in Smart Power Supply
- Low Power Consumption
- Suitable for Various Environments
- Smart Buildings Ready

Monitor temperature and humidity in data centers

Ensure network and equipment protection with the **TH1-ECO** sensor

In data centers, environmental conditions significantly impact network stability and equipment performance. The TH1-ECO sensor allows real-time monitoring and transmission of temperature and humidity data to the network, enabling more effective control and early detection of potential issues.

1. Reduced equipment downtime
2. Improved network stability
3. Protection of sensitive equipment
4. Compliance with environmental standards
5. Integration with monitoring systems
6. Suitable for all data centers

Precise temperature and humidity monitoring in warehouses and logistics centers prevents product deterioration, preserves the quality of sensitive goods, and reduces costs, with TH1-ECO smart monitoring.

The TH1-ECO sensor, with precise temperature and humidity measurement and connection to the monitoring system, helps manage warehouse storage conditions more intelligently and protects your goods.

- Continuous Storage Condition Monitoring
- Reduced Product Waste
- Protection of Stored Goods
- Improved Storage Quality
- Monitoring System Integration
- Suitable for Logistics Centers