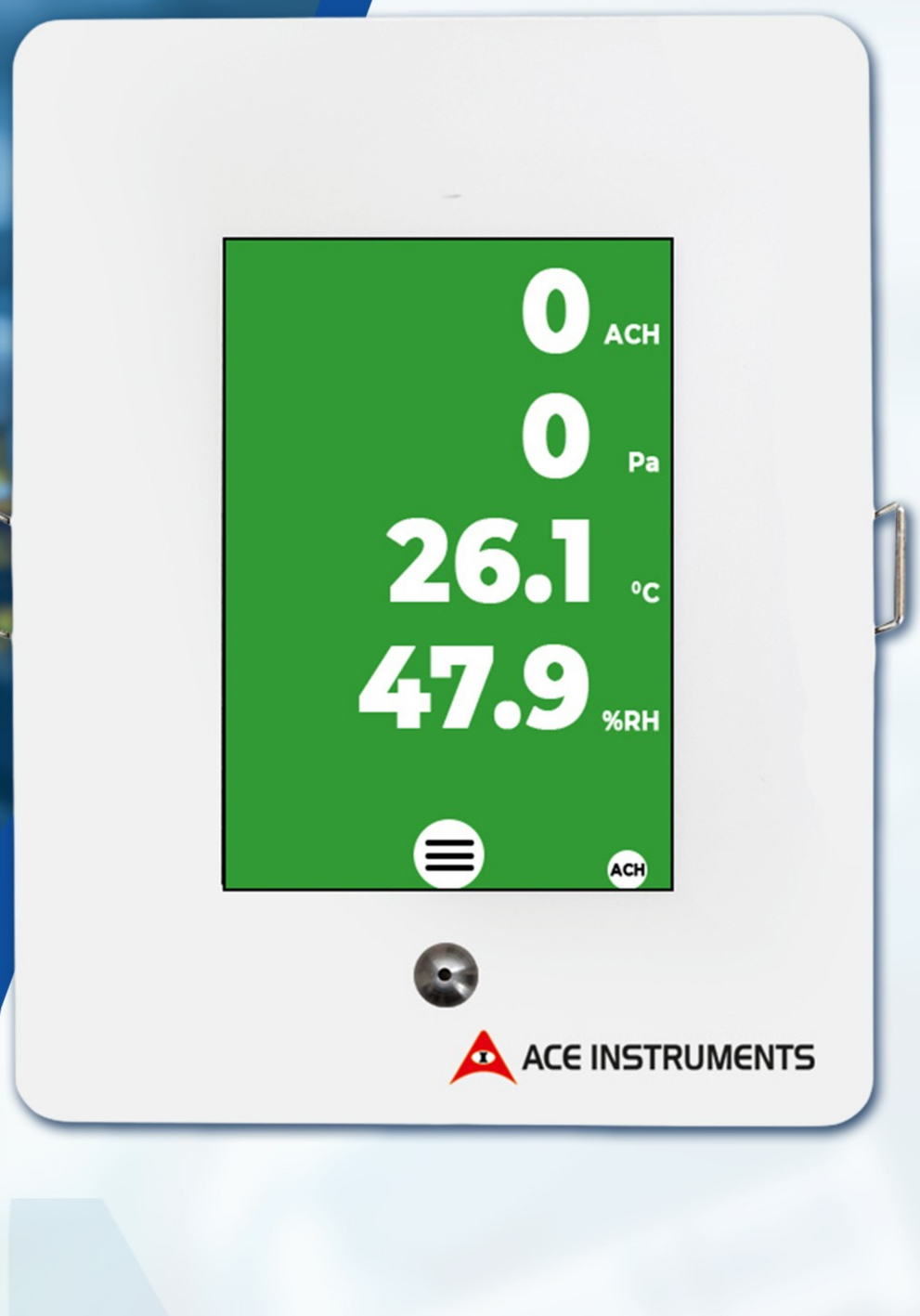
Smart Air Change Monitoring Solution for Clean Rooms with Touch Screen



AI-ACH-4-1-TFT

Product Overview

The ACE AI-ACH-4-1 TFT ACH Monitor with Touch Screen is a high-precision device designed to monitor Air Changes per Hour (ACH) in cleanrooms and controlled environments. Equipped with a modern TFT touch screen display, it provides real-time visualization of airflow performance along with environmental parameters. It ensures compliance with cleanroom standards, improves operational efficiency, and enables seamless integration with automation systems.

Key Highlights

- Measuring Parameters: Air Changes per Hour (ACH), Differential Pressure, Temperature, Humidity (model dependent)
- TFT Touch Screen Display for Easy Operation & Visualization
- Real-Time Alarm with Buzzer & Visual Indicators
- High Accuracy Sensors for Reliable Monitoring
- BMS/SCADA Integration via RS-485 Modbus
- Easy Flush Mount Installation (Wall/Panel)
- User-Friendly Interface with Advanced Controls

Technical Specifications

Features	Specifications
Brand	ACE Instruments
Model	AI-ACH-4-1 TFT
Parameters Measured	ACH, Differential Pressure, Temperature, Humidity
ACH Measurement	Real-Time Air Changes per Hour Calculation
Differential Pressure Range	0 to 100 Pascal (model dependent)
Pressure Accuracy DP Resolution	±0.5% F.S. DP Resolution | 1 Pascal
Temperature Range	0°C to 50°C
Temperature Accuracy Temperature Resolution	±0.5°C 0.1°C
Humidity Range	0 to 100% RH
Humidity Accuracy Humidity Resolution	±2% RH 0.1% RH
Sensors	External Temperature & Humidity Sensor, Built-in DP Sensor
Display	TFT Touch Screen Display
Alarm	Built-in Buzzer + Visual Alerts
Communication	RS-485 Modbus RTU
Mounting	Wall/Flush Mounting with Stainless Steel Front Plate
Supply Voltage	24V DC
Enclosure	MS Powder-Coated Body with SS Front Plate
Dimensions	Compact Industrial Design
Weight	Approx. 700–1000 grams

What's in the Box

- ACH Monitor Unit with TFT Touch Screen
- External Sensor for Temperature & Humidity
- Calibration Certificate
- Power Adaptor
- Silicon Tubes
- User Manual

Warranty & Support

- Warranty: 1 Year Manufacturer Warranty
- Calibration: Traceable to international standards like NIST
- Support: Technical & installation assistance available

Complaints

CE

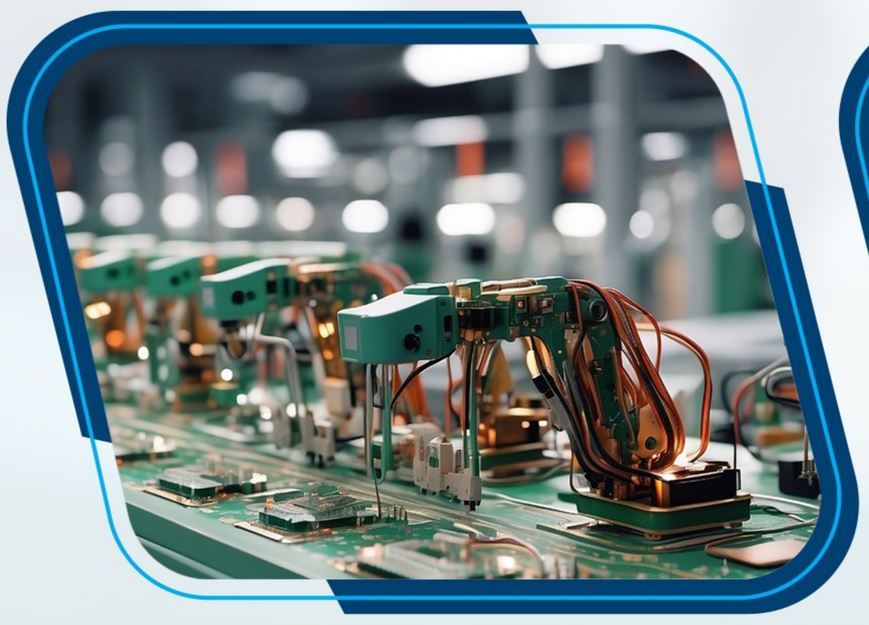
CERTIFIED ISO 9001:2015 COMPANY

Applications

Pharmaceutical Clean Rooms

Hospital Operation Theatres

Controlled Environment Facilities



Electronics Manufacturing Units

Laboratories & Research Facilities

HVAC System Monitoring

Related Products

AI-CRM3-TFT

AI-CRM1-LCD

AI-DP1-TFT

FAQ's

- Ensures accurate monitoring of air changes in cleanrooms
- Helps maintain regulatory compliance standards
- Provides real-time alerts for deviations
- Touch screen interface improves usability
- Enables seamless integration with automation systems

FAQ's

ACE Instruments is a trusted manufacturer of precision monitoring solutions, delivering reliable products for cleanroom, pharmaceutical, and industrial environments.

Temp | Humidity | Pressure | Differential Pressure | Vacuum | Gases | Particle | Air Flow
Moisture | Dissolved Oxygen | Radiation | Air Quality | Light / Lux | Distance | Vibration

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