ISO-9001 Manufactured

Carbon Dioxide Transmitter With Temperature
For Active Space & Zone Ventilation & Temperature Control

- Attractive wall mount case with display for temperature and CO₂ levels. No-Display version also available.
- Self-calibrating sensor eliminates calibration/maintenance requirements.
- Easy to install duct mount version with 8" aspiration probe. (No tubes to plug or clean.)
- Easy choice of voltage or current via jumper selection, relay output also available.
- Display, output range and scaling easily customized via a PC interface.
- Add-on options for Lonworks®, RS-485 network connection or 2000 point data logger.
- Gold plated optical sensor ensures long-term durability and stability.
- Purposefully built for quality - designed and built using Internationally Certified ISO 9001 processes.

A Breakthrough In Simplicity And Cost!

Why Active Ventilation Control With CO₂?

- Ventilation control with CO₂ is a viable and energy efficient way of controlling ventilation to target cfm/person levels based on actual occupancy. This approach offers many advantages over the traditional approach of providing fixed ventilation based on maximum occupancy.
  - Reduce ventilation and energy costs in applications with variable occupancy.
  - In static occupancy applications, owner can continuously control ventilation rates to reflect current occupancy conditions.
  - Actively control ventilation to eliminate unintended over and under ventilation conditions resulting from post commissioning adjustment of outside air quantities.
  - Monitor and control zone ventilation efficiency and take advantage of using preconditioned transfer air from under occupied spaces for ventilation.
  - Documented CO₂ levels can provide ongoing verification that code-required ventilation rates are being maintained.
Distributed By:  

About The CO₂ And Temperature Transmitter 
The TR9200 is a state of the art monitor for zone ventilation and temperature control. Versions for wall or duct mount are available. Outputs are user configurable via an easy to use PC interface. The need for calibration has been eliminated through use of a unique self-calibration algorithm that has been proven in over 8 years of use.

Wall: TR9220

Duct: TR9221, TR9223 (without probe)

About The AirTest-Interface (AI) Program
All AirTest™ CO₂ products can be easily customized in a number of ways using AirTest’s PC program called “AI”. An inexpensive cable is used to connect the monitor serial port (see Wiring Access). Adjustments can be made in a few seconds and include: LCD display options, measurement range and output range.

Ordering Information

Other AirTest CO₂ Products
AirTest™ also offers other programmable CO₂ monitors that offer additional capabilities including:
- Measurement of humidity or dew point,
- Measurement up to 20% CO₂,
- The ability to receive inputs from other sensors,
- Integrated thermostat and economizer functionality,
- A variety of enclosures for industrial and other uses.
- Sensors with programmable PLC controller functions

Specifications

General
- Temperature Measurement: Thermistor With Linear Output
- Transmitter Rated Life: 15 years
- Operating Conditions: 32 to 122º F (0 to 50ºC), 0 to 95% RH
- Storage Conditions: -40 to 158º F (-40 to 70º C)
- Power
  - Input: 18-30 VAC, 50-60 Hz (half-wave rectified)
  - Average Power Consumption: 3 Watts average
- Outputs
  - Adjustment: All outputs including display values shown, measurement range, analog output range and relay set point can be easily adjusted by the user or your distributor using a PC or PDA and the AirTest™ Interface (AI) program.
  - Linear Analog Outputs: (CO₂ = Out1, Temp = Out2)
  - Relay Option: Isolated, NO, 1mA/5V up to 1A/50VAC/24VDC
  - RS-485 Option: Network capability for up to 30 units (Custom protocol: contact AirTest™ or Distributor for details).  
- Wiring Access: remove top front panel of sensor to access wiring terminals. Access can be protected with locking screw.

Other AirTest Technologies Inc. specializes in the application of cost effective, state-of-the-art gas monitoring technology to ensure the comfort, security, health and energy efficiency of buildings.

Specifications Subject To Change Without Notice 10/29/02

Covered By US Patents: 6194735, 6016203, other patents pending

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