

Applications

- Identify areas with low or substandard ventilation.
- Identify hidden energy savings in overventilated spaces.
- Determine if ventilation is a factor in air quality complaints.
- Locate the presence of combustion fumes from vehicles and appliances.
- Use as a reference to calibrate wall mounted CO₂ sensors.

Features

- Patented dual beam, Absorption Infrared™ gas sensor ensures long term stability and durability.
- Record temperature, CO₂, RH and graph recorded data with supplied software (Model 7001D).

- Large, easy-to-read display. Temperature displayed in °F or °C. CO₂ displayed in ppm. Easily adjusted for altitude changes.
- Fast, simple calibration using external port and display. Calibrate with ambient air or bottled gas.
- Calibrate, set elevation, change °F or °C using on-board controls or optional computer interface (UIP kit model 2072)
- Flip out stand for desktop monitoring.
- Voltage output via RJ45 connector provides easy interface to most data loggers.
- Plug in AC power adaptor.
- Operates for up to 80 hours on four AA alkaline batteries (not included).
- Displays cfm-per-person ventilation rate based on CO₂ inside outside differential reading.

Telaire® 7000 Series

Handheld Indoor Air Quality (IAQ) Monitors

Telaire 7000 Series are Telaire products. Telaire has joined other GE high-technology sensing businesses under a new name—GE Industrial, Sensing.



7000 Series Specifications

Method

Dual Beam Absorption Infrared™

Sample Method

Diffusion or flow through (50 to 100 ml/min)

Display-LCD

Independent CO₂ and temperature readings. Calculates and displays ventilation rates.

General

Operating Conditions

- 32°F to 122°F (0°C to 50°C)
- 0 to 95% RH, non-condensing

Storage Temperatures

-4°F to 140°F (-20°C to 60°C)

Certification

FCC Class 15 Part B

Warranty

18 months parts and labor

Performance-CO₂ Channel

Measurement Range

- 0 to 10,000 ppm display
- 0 to 4000 ppm voltage output

Display Resolution

±1 ppm

Accuracy

±50 ppm or 5% of reading, whichever is greater

Repeatability

±20 ppm

Temperature Dependence

±0.1% of reading per °C or ±2 ppm per °C, whichever is greater, referenced at 25°C.

Pressure Dependence

0.13% of reading per mmHg (corrected via user input for elevation)

Response Time

<60 seconds for 90% of step change

Warm-Up Time

<60 seconds at 72°F (22°C)

Calibration Interval

12 months, offset adjustment using single gas at 0 to 1000 ppm CO₂. Full factory calibration available.

Performance-Temperature Channel

Temperature Range

- Voltage output: 32°F to 104°F (0°C to 40°C)
- Display: 32°F to 122°F (0°C to 50°C)

Display Resolution

0.1°F (0.1°C)

Display Options

°F, °C, or off. Set with panel button.

Accuracy

±2°F (±1°C)

Response Time

20 to 30 minutes (case must equilibrate with environment)

Calibration Interval

12 months, offset adjustment using temperature standard at 50°F to 86°F (10°C to 30°C). Full factory calibration available.

Output-Analog

CO₂

0 to 4 VDC, 1 mV/ppm (4000 ppm maximum)

Temperature

0 to 4 VDC linear, 32°F to 104°F (0°C to 40°C)

Output Impedance

100 ohms