

# Get a Grip!

## On CO<sub>2</sub> and Ventilation

ONLY  
**\$495**

By measuring CO<sub>2</sub> with the Telaire® 7001 you can easily determine the ventilation rate in any building. Quickly show that low ventilation rates are the cause of IAQ problems or identify areas that are over-ventilated and wasting energy. Get a grip on the Telaire® 7001 and start finding solutions for IAQ complaints and wasted energy.

To order Call:



**Techmark, Inc.**

*technology from the ground up*

5801 W. Mt. Hope Hwy. • Lansing, Michigan 48917

ph (517) 322-0250 • fax (517) 322-0470

techmark@worldnet.att.net • www.techmark-inc.com



## Features

### Instant Information

Get CO<sub>2</sub> readings in less than 60 seconds

### Visualize Data

Demonstrate the current conditions and explain ventilation rates

### Identify Problems and Solutions

Show the relationship between IAQ complaints and low ventilation rates. Identify areas that are over ventilated and make recommendations to solve the problem.

### Record Indoor Air Quality

0-4V output available for data logging - monitor IAQ and verify the results of corrective actions

### Verify CO<sub>2</sub> Controllers

Easily verify that wall mounted CO<sub>2</sub> controllers are in calibration

### Features

- Battery Operation for 70+ hours
- CO<sub>2</sub> range 0-10,000 ppm (0-4,000 ppm output)
- Patented Non-Dispersive Infrared CO<sub>2</sub> Sensor
- Display Temperature in °C or °F
- AC power adapter included

**TELAIRE®**  
A Division of Edwards Systems Technology

## Specifications

### Method

Dual Beam Absorption Infrared™

### Sample Method

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

### Warranty

18 months parts and labor

### Performance

#### CO<sub>2</sub> Channel

#### Measurement Range

0-4,000 ppm voltage output

0-10,000 ppm display

#### Sensitivity

± 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 to 25°C

#### Pressure Dependence:

0.13% of reading per mm Hg

(Corrected via user input for elevation)

#### Annual Drift

± 20 ppm typical

#### Response Time

<60 seconds for 0..90% of step change

#### Warm-Up Time

<60 seconds at 22°C

#### Operating Conditions

32-122°F (0-50°C)

0-95% RH, non-condensing

#### Storage Temperatures

-40 to 140°F (-40 to 60°C)

#### Calibration Interval

12 months, offset adjustment using single gas at 0-1000 ppm CO<sub>2</sub>. Full factory calibration available

### Temperature Channel

#### Temperature Range

Voltage output 32 to 104°F (0 to 40°C)

Display 32 to 122°F (0 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

20-30 minutes (gas must equilibrate with environment)

### Calibration Interval

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

### Output - Analog

#### CO<sub>2</sub>

0-4 VDC, 1mV/ppm (4,000 ppm max)

#### Temperature

0-4 VDC linear, 32-104°F (0-40°C)

#### Output Impedance

100 Ohms

#### Wiring Connection

Via RJ-45 to DB9 serial port cable

## Applications

- Identify areas with low or substandard ventilation.
- Identify hidden energy savings in over-ventilated 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 CO<sub>2</sub> sensors.



## Specifications (cont)

### Display

LCD with independent CO<sub>2</sub>/ temperature readings (panel buttons set elevation, °F/°C, calibration functions)

### Power Supply

#### Battery Type

Four AA batteries, not included

#### Battery Operation

70 hours (alkaline)

#### External

6 VDC from external AC/DC adapter, included

#### Power Requirements

100 mA Peak, 20 mA average from 6V

#### Certification

FCC Class 15 Part B

## Features/Benefits

- Patented dual beam, Absorption Infrared™ gas sensor ensures long term stability and durability.
- Large, easy to read display. Temperature displayed in °F or °C. CO<sub>2</sub> 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.
- Analog output for Recordaire® or other datalogger. Digital output for optional UIP interface software.
- Plug In AC power adaptor.
- Operates for up to 70 hours on 4 AA alkaline batteries. (not included).

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It is our intention to keep the product information current and accurate. We can not cover specific applications or anticipate all requirements. All specifications are subject to change without notice. For more information or questions relative to this Specification Sheet, contact EST.

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