



CDH

CE

## Features

- 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)
- 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 80 hours on 4 AA alkaline batteries. (not included).



## Application

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.

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## Ordering Code

CDH Portable CO<sub>2</sub> and temperature monitor



## Specifications

<b>Method</b>	Dual Beam Absorption Infrared
<b>Sample Method</b>	Diffusion or flow through (50-100 ml/min)
<b>Warranty</b>	18 months parts and labor

## Temperature Channel

<b>Temperature range:</b>	
<b>Voltage output</b>	+32...+104°F (0...+40°C)
<b>Display</b>	+32...+122°F (0...+50°C)
<b>Display resolution</b>	0.1°F (0.1°C)
<b>Display options</b>	°F, °C, or Off. Set with panel button.
<b>Accuracy</b>	±2°F (±1°C)
<b>Response Time</b>	20-30 minutes (case must equilibrate with environment)
<b>Calibration interval</b>	12 months, offset adjustment using temperature standard +50...+86°F (10...+30°C).  Full factory calibration available

## Performance

<b>CO<sub>2</sub> Channel:</b>	
<b>Measurement range</b>	0-2%(20,000 ppm) voltage output 0-10,000 ppm display
<b>Resolution</b>	± 1 ppm
<b>Accuracy</b>	±50 ppm or ±5% of reading, whichever is greater
<b>Repeatability</b>	±20 ppm
<b>Temperature depeadance</b>	±0.1% of reading per °C or ±2 ppm per °C, whichever is greater, referenced to +25°C
<b>Pressure dependence:</b>	0.13% of reading per mm Hg (Corrected via user input for elevation)
<b>Annual drift</b>	± 20 ppm typical
<b>Response time</b>	<60 seconds for 90% of step change
<b>Warm-up time</b>	<60 seconds at +22°C
<b>Operating conditions</b>	+32...+122°F (0...+50°C) 0-95% RH, non-condensing
<b>Storage temperatures</b>	-40...+140°F (-40...+60°C)
<b>Calibration interval</b>	12 months, offset adjustment using single gas at 0-1000 ppm CO <sub>2</sub> .  Full factory calibration available

## Output - Analogue/Digital

<b>CO<sub>2</sub></b>	0-4 Vdc, 1mV/ppm (4,000 ppm max)
<b>Temperature</b>	0-4 Vdc linear, +32...+104°F (0...+40°C)
<b>Output impedance</b>	100 Ohms
<b>Wiring connection analogue</b>	Via RJ-45(accessory RS-232 cable 2070 or 2071)
<b>Wiring connection</b>	Via RJ-45 to DB9 serial port digital cable
<b>Display</b>	LCD with independent CO <sub>2</sub> / Temperature readings (panel buttons set elevation, °F/°C, calibration functions)

## Power Supply

<b>Battery type</b>	Four AA batteries, not included
<b>Battery operation</b>	80 hours (alkaline)
<b>External</b>	6 Vdc from external AC/DC adapter, included
<b>Power requirements</b>	100 mA Peak, 20 mA average from 6V
<b>Certification</b>	FCC Class 15 Part B