

## TECHNICAL DATA

### Features

- Triple LCD display simultaneously monitors carbon dioxide (CO<sub>2</sub>), temperature and relative humidity
- Calculates time-weighted average (TWA) and short-term exposure limit (STEL)
- Low-drift NDIR CO<sub>2</sub> sensor for stable and accurate readings
- Temperature and relative humidity measurements help determine thermal comfort
- Easy-to-read backlit LCD display
- User adjustable audible alarm
- Data hold, Max/Min and Average functions
- Record up to 32,000 datapoints and keep track with internal time and date stamp
- User selectable sampling rate from 1 to 60 mins
- Low battery indicator and auto shut-off
- Includes USB cable, hard carrying case and batteries

### Specifications

#### Temperature

Measuring Range: -4 to 140°F (-20 to 60°C)  
Accuracy: ±1.5°F (±0.8°C)  
Resolution: 0.1°F/°C

#### Humidity

Measuring Range: 0 to 100% RH  
Accuracy: 10 to 90% RH: ±3%  
<10% & >90% RH: ±5%  
Resolution: 0.1% RH

#### CO<sub>2</sub> (Carbon Dioxide)

Sensor Type: Nondispersive Infrared (NDIR)  
Measuring Range: 0 to 30,000ppm  
Accuracy: 0 to 5000ppm: ±(75ppm + 3% rdg.)  
5001 to 30,000ppm:  
±(150 ppm +5% rdg.)  
Resolution: 1ppm  
Warm-up Time: 20 seconds  
Sampling Rate: 2 seconds



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### General Specifications

Display:	LCD
Backlit Display:	Yes
Data Hold:	Yes
Min, Max, Avg Functions:	Yes
CO <sub>2</sub> Short Term Exposure Limit (STEL):	Yes (15 minutes)
CO <sub>2</sub> Time Weighted Average (TWA):	Yes (8 hours)
Datalogging Capabilities:	Yes
Real-Time Clock and Date Stamp:	Yes
Selectable Sampling Rate:	Yes (between 1s and 60m59s)
Internal Memory:	Yes (32,000 datapoints)
Alarms:	Yes (Low and High)
Auto Shut-off:	Yes (adjustable)
Kick Stand:	Yes
Low Battery Indicator:	Yes
Power Supply:	9V battery
Battery Life:	Approx. 10 hours (continuous use)
PC Connectivity:	USB
Software OS Compatibility:	Windows 7/8/10/11
Product Certifications:	CE
Operating Temperature:	32 to 122°F (0 to 50°C)
Storage Temperature:	-4 to 140°F (-20 to 60°C)
Operating Humidity Range:	0 to 90%
Storage Humidity Range:	10 to 75%
Maximum Operating Altitude:	6561' (2000m)
Dimensions:	11.2 x 2.6 x 1.5" (284 x 65 x 39mm)
Weight:	10.7oz (304g)

### R9905-KIT

Data Logging Indoor Air Quality Meter with Humidity Calibration Standards

Includes:  
R9905 Data Logging Indoor Air Quality Meter and R9980 set of 33% and 75% Humidity Calibration Standards



Model	Description
R9905	Data Logging Indoor Air Quality Meter
R9905-NIST	Data Logging Indoor Air Quality Meter with NIST
R9905-PROBE	Replacement Temperature & Humidity Probe
R9933	Humidity Calibration Standard, 33%
R9975	Humidity Calibration Standard, 75%
R9980	Humidity Calibration Kit (33% and 75%)
R8890	Large Hard Carrying Case
R9905-KIT	Data Logging Indoor Air Quality Meter with Humidity Calibration Standards