(888) 357 – 7604
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FL Pro CLEAN UP

24 Hrs Emergency Service

AIQ MONITOR DESCRIPTION

Temperature

Temperature is not just a matter of comfort, it can negatively affect sleep quality, mood, and alertness

Humidity

High humidity promotes mold growth and aggravates asthma symptoms, while too-dry air can lead to skin and throat irritation.

Particulate matter (PM 2.5)

Fine particulate matter (PM2.5) reaches deep in the lungs causing short-term discomfort and long-term health risks.

Airborne chemicals (VOCs)

Volatile organic compounds (VOCs) are airborne chemicals emitted by everyday items - many are harmless but some are toxic.

Carbon Dioxide (CO2)

When it reaches high levels indoors, carbon dioxide (CO2) can cause poor sleep and trouble concentrating.

Air pressure

Changes in air pressure affect radon levels and, for some, they can trigger headaches, joint stiffness and pain.

Radon

You can't see or smell it, but long-term exposure to this radioactive gas is the top cause of lung cancer in non-smokers.

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TECHNICAL SPECIFICATIONS

- **Sensors:** Radon, particulate matter ($PM_{2.5}$), Carbon dioxide (CO_2), temperature, humidity, airborne chemicals (VOC), air pressure

RADON SPECIFICATIONS

- **Radon sampling:** Passive diffusion chamber
- **Detection method:** Alpha spectrometry
- **Measurement range:** 0 – 500 pCi/L / 0 – 20,000 Bq/m^3
- **Accuracy/precision at 5.4 pCi/L / 200 Bq/m^3:** After 7 days ~ 10 % After 2 months ~ 5 %

AIR QUALITY SPECIFICATIONS

- **Sensor sampling interval:**
  5 minutes
- **Sensor Resolution:**
  Temperature ∓ 0.1°C / F
  Humidity ∓1%
  Pressure ∓0.15hPa
- **Initial calibration time:**
  VOC ~7 days
  CO2 ~7 days
- **CO_2 details:**
  NDIR Sensor (Non-Dispersive Infra-Red):
  Measurement range 400–5000 ppm
  Optimum Accuracy ±50ppm ±3% within 10 – 35°C / 50 - 95°F and 0 – 80%RH after initial calibration time
- **Particulate Matter ($PM_{2.5}$) details:**
  Laser scattering based optical particle counter
  Particle size detection range: 300 nm to 10 µm
  Range: 0~200 µg/m^3
  Measurement error (PM2.5): 0 ~100µg/m^3, ±10µg/m^3,100 ~200 µg/m^3, ±10%. Calibrated with a GRIMM using cigarette smoke source

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THRESHOLD LEVELS

- **Radon (pCi/L)**
  - ≥4 pCi/L
  - ≥2.7 and <4 pCi/L
  - <2.7 pCi/L
- **Radon (Bq/m³)**
  - ≥150 Bq/m³
  - ≥100 and <150 Bq/m³
  - <100 Bq/m³
- **Particulate matter ($PM_{2.5}$)**
  - ≥25 µg/m³
  - ≥10 and <25 µg/m³
  - <10 µg/m³
- **Carbon dioxide (CO_2)**
  - ≥1000 ppm
  - ≥800 and <1000 ppm
  - <800 ppm
- **Humidity**
  - ≥70 %
  - ≥60 and <70 %
  - ≥30 and <60 %
  - ≥25 and <30 %
  - <25 %
- **Temperature (°F)**
  - >77 °F
  - ≥64 and ≤77 °F
  - <64 °F
- **Temperature (°C)**
  - >25 °C
  - ≥18 and ≤25 °C
  - <18 °C
- **Airborne chemicals (VOC)**
  - ≥2000 ppb
  - ≥250 and <2000 ppb
  - <250 ppb