

## Dry Ice & Vaccine Storage



### Fixed Gas Detection for Carbon Dioxide and Notification

With the deployment of COVID vaccines throughout medical facilities, laboratories, and pharmacies, the vials need to be stored at extremely cold temperatures. Dry ice is being used to keep the vaccines cold during storage before use. When dry ice sublimates, CO<sub>2</sub> is released in the air causing a safety concern to individuals. The CD-6B CO<sub>2</sub> detector placed near the cooler will provide both audio and visual notification if CO<sub>2</sub> levels rise above the alarm set point.

#### CO<sub>2</sub> Levels PPM (% By Vol)

400-1,000PPM (.04 - .1%)
1,000-2,000PPM (.1 - .2%)
2,000-5,000PPM (.2 - .5%)
>5,000PPM (.5%) Avg. Over 8 Hours
30,000PPM (3%) (STEL): 15 Minutes
>40,000PPM (4%) (ILDH)
50,000PPM (5%)
80,000PPM (8%)

#### Effects and Symptoms

Indoor occupied spaces with good air exchange
Complaints of drowsiness and poor air.
Headaches and sleepiness; stagnant, stale, and stuffy air. Poor concentration, loss of attention, increased heart rate and slight nausea may also be present
This indicates unusual air conditions where high levels of other gases also could be present. Toxicity or oxygen deprivation could occur. This is the permissible exposure limit for daily workplace exposures.
Moderate respiratory stimulation, increased heart rate and blood pressure.
Exposure may lead to serious oxygen deprivation resulting in permanent brain damage, coma or death.
Strong respiratory stimulation, dizziness, confusion, headache and shortness of breath.
Dimmed sight, sweating, tremor, unconsciousness, and possible death.

- When vaporized dry ice produces a large volume of carbon dioxide it can displace air causing both CO<sub>2</sub> poisoning and oxygen deficiency and may accumulate in low points.
- Customers need to consult with local and state agencies on all building, installation and usage permitting and licensing requirements.

## CD-6B Carbon Dioxide (CO<sub>2</sub>) Detector, Controller

### Key Features

- 0-5% by vol. (0-50,000PPM)
- Three alarm relays (low, medium, high)
- Digital display / onboard buzzer
- Low voltage 12-24AC/DC

### Applications

- Hospitals
- Medical Facilities
- Laboratories
- Pharmacies

### Accessories

- Horn and Strobe
- PS-24 or PS-24-H(Plug-in 24VDC power)
- CO<sub>2</sub> test/calibration gas