

Oxygen (O₂) Sensor Requirements

In accordance with FDNY Fire Code §3205 and various OSHA standards, oxygen (O₂) sensors are required in areas where 60 gallons or more of cryogenic liquids are dispensed. These sensors must be equipped with an audible alarm and continuously monitor oxygen levels. The alarm must be activated when the oxygen concentration drops below 19.5 percent.

Columbia University exclusively uses the PureAire O₂ Deficiency (Depletion) Monitor, Item #99016, for this purpose.

- **Installation Requirements:** The monitor must be securely wall-mounted and connected to a standard electrical outlet. If a nearby outlet is unavailable, one must be installed specifically for this device. The monitor should be mounted at a height of approximately five feet from the floor. To prevent loose wiring that could interfere with other equipment or create a tripping hazard, the use of wiremold is strongly preferred. **Hardwiring the unit is not permitted.**

Detailed product specifications are available at [PureAire O₂ Deficiency \(Depletion\) Monitor product page](https://www.pureairemonitoring.com/all-categories-gas-monitorsair-check-o2-oxygen-deficiency-monitor-for-co2-n2-storage-areas/). (<https://www.pureairemonitoring.com/all-categories-gas-monitorsair-check-o2-oxygen-deficiency-monitor-for-co2-n2-storage-areas/>)

A photo illustration of a proper wall-mounted installation of the PureAire sensor is included below:

