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SPACING AND LOCATION OF SENSORS

How far apart should the sensors be?

This depends on the application, but for most commercial applications, each sensor should 'cover' 5,000 to 7,000 square feet. This translates to about 70 to 80 feet apart, or a 35 to 40 foot radius. In more hazardous areas, the sensor coverage area should be reduced.

What should the mounting height of the sensors be?

This depends on the density of the gas relative to air. Heavier than air gases should be detected 6 inches from the floor, than air gas sensors should be placed on or near the ceiling, and gases which have a density close to that of air should have sensors installed in the 'breathing zone' 4 to 6 feet from the floor. Consider accessibility for calibration when locating sensors.

Are there other considerations for locating sensors?

Sensors should not be placed near ventilation fans or openings to outside. They should be placed in areas where there is good air circulation, but not in the path of rapidly moving air. Pay particular attention to 'dead air spots' where there is little or no air movement.

What is the breathing zone?

The breathing zone refers to the area 4 to 6 feet from the floor, where most human breathing takes place. This is a good default location for sensors.